GAT ASS GOT COA ACA TOT COT TGT COT TOO ATA TOT TOO CAG AAC hr ala pro thr ser pro cys pro ser ile ser ser gln asn ser thr met asn ala THA AGE THE THE THE AGE THE CAS GAS CAS AAR ATE SEE AGE ATS THE GAT OGS ACT THE ser ser ser bys ser ser phe glm asp glm lys ile ala ser met phe asp arg thr ser Cadherin 151 121 xx EC motif xx| AGA GTA CCC GCC AGC AGC ACT TCC TCA CCG GGG CTC CTC TTC ACA GAA CTG GCT GCT GCC ard val pro ala ser ser thr ser ser pro gly led led phe thr glu led ala ala ala 211 CIG GAT GCC BAA BGG GAA GGA ATC ABC BAA GTA CAA AGG AAA GCT BTC AGT BCA ATT CAC leu asp ala glu gly glu gly ile ser glu val gln arg lys ala val ser ala ile his 271 AGC CTG CTA AGT TCT CAC GAC CTG GAC CCA CGC TGT GTC AAA CCA GAG GTG AAG GTC AAA ser leu leu ser ser nis asp leu asp pro arg cys val lys pro glu val lys val lys 331 ATC GCC GCC CTT TAC CTA CCT TTA GTT GGC ATC ATT TTG GAI GCI TTG CCA CAG CTC TGT the ala ala leu tyr leu pro leu val gly ile ile leu asp ala leu pro gln leu cys GAC TTT ACA GTT GCA GAT ACT CGC AGA TAC CGC ACC AGT GGC TCG GAT GAA GAA GAA asp phe thr val ala asp thr arg arg tyr arg thr ser gly ser asp glu glu glu glu 421 451 GGA GCC 3GT GCC ATT ACC CAS AAT GTG GCT CTG GCC ATA GCA GG3 AAT AAT ITC AAT TTG gly ala gly ala ile thr glm asm val ala leu ala ile ala gly asm asm phe asm leu 511 ...31 AAA ACA AGT GGA ATA GTG CTG TCT TCC TTG CCC TAT AAG CAG TAC AAC ATG CTG AAC GCG lys thr serigly lie valiled ser seriled pro tyr lysigln tyr ash met led ash ala 5.4.1 571 GAC ACT ACT CGC AAC CTC ATG ATC TGC TTC CTC TGG ATC ATG AAA AAT GCT GAT CAG AGC asp thr thr arg asn leu met ile cys phe leu trp ile met lys asn ala asp gln ser CTC ATT AGG AAG TGG ATT GCT GAC CTG CCA TCA ACG CAG CTC AAC AGG ATT TTA GAT CTA led file and lys trp ile ala asp led pro ser thr gin led ash arg file led asp led OT TIT AIN THE HER TIA THE TIT HAS TAT AAR HAA AAA HAR AUT THE HAA AAA OTH AFE Lea phe life typ wal lea tye phe all typ lyp ally lyp all set bet app lys wal ber 721 751 ACC CAA GTC CTG CAG AAG TCA AGG GAT GTC AAG GCC CGG CTG GAA GAG GCT TTG CTG CGT thr gln val leu gln lys ser arg asp val lys ala arg leu glu glu ala leu leu arg IGGS GAA GYS GOD AGA SOO DAG ATG ATG OBD OBD CGS BOT COA GGG AAC GAC CGA TIT COA

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901
                                          931
AAS CTA GAT AAA ACA AAG SCC SAS TTA GAT CAA GAA GCC TTG ATC AGT 3GC AAT CTG GCT
lys leu asp lys thr lys ala glu leu asp gin glu ala leu ile ser gly asn leu ala
                                           931
ACA GAA GGA CAT TIA ATO ATO CTG GAT ATG CAG GAA AAC ATT ATC CAG GCG AGC TCG GCT
thr glu ala his leu ile ile leu asp met gin glu asn ile ile gin ala ser ser ala
                                          1051
CIG BAC TGI AAA GAC AGC CTG CTG GGA BGT GTT DTG ABG GTG CTG GTG AAT TCT CTB AAC
led asp dys lys asp ser led led gly gly val ted arg val led val asm ser led asm
TGT GAT CAS AGE ACC ACC TAG OTS ACT CAS TGC TTT GOA ACA OTC CGT GCT GTC ATO GCC GVS asp glm ser thr thr tyr leu thr mis dys phe ala thr leu arg ala leu ile ala
1.41
                                           1:01
AAB TIT GGA GAC TIA CIC TIC BAA GAG GAG GIG BAA CAG TGI TIC BAC CIA TGI CAC CAA
ly; phe gly asp leu leu phe glu glu glu v*l glu gln cys phe asp leu cys his gln
1.201
                                           1.331
GT: CTG CAC CAC TGC AGC AGC AGC ATG GAT GTC ACC DGG AGC CAA GCC TGT GCC ACC CTT
val leu his his cys ser ser ser met asp val thr arg ser glm ala tys ala thr leu
1.351
                                          1.391
TAC CTC CTC ATG AGG TTC AGT TTT GGA GCC AUC AGT AAT TTT GCA AGA GTA AAG ATC CAA
tyr leu leu met arg phe ser bhe gly ala thr ser ash phe ala arg val lys met gln
7 4,11
                                          1 + 1
GTA ACC ATG TCC CTG GCA TCT TTG GTG GSA ABA BCA CCA GAC TTT AAT GAA GAG CAC CTG
val thr met ser led ala ser led val gly ang ala pro asp phe ash glu glu his led
                                           1411
AGA AGA TOO TIS AGG ACA ATT TIG GOO TAT TUA GAA GAG GAC ACA GOO ATG CAG ATG ACT
and arg ser led and thrile led ala tyr ser glu glu asp thriala met gln met thr
                                          1.71
COT TIT COC ACC CAG GIG GAG GAA CIT CIC TOT AAT CIG AAT AGC AIC TIA TAIT GAC ACA
pro phe pro thr gln val glu glu leu leu dys ash leu ash ser ile leu tyr asp thr
                                           1.531
GTG AAA ATG AGG GAA TTT CAG GAA GAT CCT GAG ATG CTT ATG GAT CTC ATG TAC AGA ATT
va. Lys met and glu phe gln glu asp pro glu met leu met asp leu met tyr and ile
and and net that has been tot out out out fire but its han two out income that are out one
and typ per typ attracts being not approved a low out tap tought two met alk after
1w. his the Tys Tys Tys Cys tyr the glu ala ala met Cys leu val his ala ala ala
MIDERKKKKKKKKKKKKKKKKKKK
TTM OTO BUT GAS TAT OTS ASSIBLTS OTTO SAG SAG SAS DAS ASSIBLTAS OTS DOS STOUGS ASTISTS CONTROL OF STOUGHT AND SAGE ASTISTS.
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1891
 OTO UTG GAS CAS GOO GOO GAS CTO TTO AGO ADG GGA GGO TTA TAT GAG ACA GTT AAT GAG
led led gld glm ala ala gld led phe ser thr gly gly led tyr gld thr val asm gld
                                                                         1951
STO TAC AAS STS STC ATO SSC ATC STA GAA GOS CAT SGA GAA TTO SEG AAG STG ADA STC
val tyr lys leu val ile pro ile leu glu ala his arg glu phe arg lys leu thr leu
                                                                         2011
AUT CAC AGO AAG CTG CAG AGA GOO TTO GAO AGO ATO GTI AAC AAG GAT CAT AAG AGA ATG
the his ser lys lou gln arg ala pho asp ser ile val ash lys asp his lys arg met
                    TEXES ITAM EXECT.
                                                                         2071
THE GGA ACC TAC TTO DGA GTT DOT TTO TTE GGA TOO AAA TTE GGG GAT ETG GAA DAG
pue gly thr tyr phe ard val gly phe phe gly ser lys phe gly asp leu asp glu gln
BAG TIT GIG TAI AAA GAG COT BOA ATE ACO WAS CIT COE BAG ATO TOA GAT AGA CTA BAG
gli phe wal tyr lys gli pro ala ile thr mys leu pro glu ile ser his arg leu glu
21.51
                                                                         21191
3 M ITT TAT 3GI CAA TGT TIT GGT GCA GAA TIT GT3 GAA GTG ATT AAA 3AC TC0 ACT CCT
all phe tyrigly gin cys pne gly ala glu phe val glu val ile lys acp ser thr pro
2:::1
                                                                         2:251
313 GAC AAA ACC AAG TTG GAT OCT AAC AAG GOO TAC ATA CAG ATC ACT TTT 3TG GAG OCC
valuaspilys thrilys leadasp pro ashlys ala tyr ile gln ile thriphe valiglu pro
                                                                         2:311
TA: TIT GAT BAG TAT GAG ATG AAA GAC AGG CTC ACA TAC TIT GAG AAG AAT TIT AAC CITC
tyn phe asp glu tyr glu met lys asp arg val thr tyr phe glu lys asn phe asn leu
                                                                        2 3 7 1
DIT AGG TIC ATG TAC ACC ACC CCS TIC ACC CTS GAG GGG CGG CCI CGG GGA GAG CTG CAI
arm arg phe met tyr thr the peo phe the led glu gly arg pro arg gly glu led his
                                                                         2431
GAR CAG TAC AGA AGG AAC AGA GTC CTG ACC ACT ATG CAC GCC TTC CCC TAC ATG AAG ACC
glighn tyr arg arg aso the val led thr thr met his ala phe pro tyr ile Tys thr
                                                                         2491
                                                                                                    AGU ATO AGO GTO ATO CAG AAG GAG GAG TIT GIT ITG ACA COG ATI GAA GIT GOO ATI GAA
arrile ser valite qlr los glo glo phe val led thr pro the glo val ala ile glo
C SERRENGER CONTRACTOR OF THE GRANT STATES AND GAS GOOD GAT OF A STATE AND GAS GAS GOOD GAT OF A STATES AND AN OF STATES AND AND STATES AND 
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R. BRANKLIKKERKKERKERKERKERLERKKEL
                                                                      2.611
ARS ATG CIT CAS ATG GTG CTS CAA GGC TOT GTG GGA GCT ACT GTA AAT CAG GGA CCA CTG
lys met leu gln met val leu gln gly ser val gly ala thr val asn gln gly pro leu
9 - 4.1
SAA STA GOC CAA SOG TIT TIS SOI GAA AIT OCT SOI SAI OOA AAA DIO TAT IGA CAI OAC
glu val ala glm val phe led ala glu tle pro ala asp pro lys led tym ard his his
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AAC AAG CTA AAA GAG AAC CTO ABG CCA ATG ATG BAG CBG AAA ATT CCA GAA CTG TAC AAG
ash lys leu lys qlu ash leu arg pro met ile glu arg lys ile pro glu leu tyr lys
CCA ATA TTO AGA GTT GAG AGE CAA AAG AGG GAT EGG TEG DAG AGA TOT AGT TTO AGG AAA
pro-ile phe and val glu ser gin lys and asp ser phe his and ser ser phe and lys
                                       2971
1941
THE GAA ACC CAC TTO TOA CAG GEC AGO TAA WAA AAG COA TOT TOA TTO GIG GAE ACT GIG
cys glu thr glo leu ser glo gly ser OCH glu lys pro ser ser phe val glu thr val
                                       1.031
GOO CTG CAA COO TGG AGA AGG ADT TGC TGG TAC FTA AAA AAT GGG ACA FTT GOD ACC CAG
ala leu gln pro trp arg arg thr cys trp tyr leu lys asn gly thr pne ala thr gln
CAC TGA CTG TAC ACT COC TGA TOA GOC AGC ACT DTG GAA GOT TTG GGA TOC CAG GAA CCA
asp STP
01.21
                                       3151
TIGG AAT TAT TOO CAA ATG GAC TOT GAC CAG ATT ITT GOO ATA CTG GGG GGT GGO GGG ATG
1131
                                       3211
GAG GAT GGG TAC TCA GGG ATG ACT GCG TAT ITA TTA AAG TGT GTT TTT CCA CAA TGT ACC
                                       3271
AAA CAA GGC ATA AGC AGC TTC TCC TGC TGA CTG GCC AAT CAC TGC CCA TCT GAG AGA TGA
1301
                                       3331
TIT OCT DIG GOO CAI AIT IGA AIT TAT IGG AGI AAC ICA AAI IGO DIG AGG AAA AAI GGA
                                       3391
3.51
MAA ATT ATC CAC CAG TCG ATT CAA ACT GAA TIT CAC TCT TTA TAG GAA GGC AGG GCA AAC
                                       3451
4421
TTG TAG GAG TAG GAA ACA TTT TGA ATA AAT CTA CAA AGG GAA GCC TTA CTA CAA TTC CAA
                                       3511
AAA TOA TOA TOO TTG GAA ATT TGG GAG GAG ATT ATT TGT GAA CTT GTT ACC CTT TTG GTA
                                       35.71
3541
ATG GTG GAG TAA TTG CTG TAT AGT TAT TTT TGT TTT ATT ATT ACT GTT ACA TTA ATT TAA
TAT ONA TITE ATA DAA DAA IAN ATI NAA AREALIT DAI DIA DIA DAT ATA DORITAN TITO GAD
CAR TUA GOU AAA AAT CAU AGA TAO TGU TIT CAO TTA AAT GGA AAC AAT TOT COG ATA ATG
CTT TGC TTT TTT TCT TAT STC ACT CTT STG TAC TAT CTA TTT TTC TCC TCT CTG GGA CCA
AGE THE TIT THA TAA AGE AAT AAT ATE TOT OUT TIT AUT TEA GAA CAT TOT GET STE TGT
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4021 AAC TCG SKEL. MUSCLE
COLON
THYMUS
SPLEEN
KIDNEY
LIVER
SM. INTESTIN
PLACNTA
LUNG

~7.5 kb—

HEART

BRAIN

## Jurkat MV4-11 THP HL60 9D10 CH27 2A9 2A9

~7.5 kb —



HC2A	
KIAA	ASGNLDKNARFSAIYRODSNKLSNDDMLKLLADFRKPEKMAKLPVILGNLDITIDNVSSD
rat	
HC4	
EC:	
HC3	
HC5	
HC2A	
KIAA	FPNYVNSSYIPTKOFETCSKTPITFEVEEFVPCIPKHTOPYTIYTNHLYVYPKYLKYDSO
rat	
HC4	
HCl	
HC3	
HC5	
11.50.6	VLHEHQNPEFYDETK
HE2A	
KIAA	KSFAKARNIAICIE.FKDSDEEDSQPLLCIYGRFGGPVFTRSAFAAVLHHHÇNPEFYDEIK
rat.	
HC4	
HC1	
HC3	
HC5	
n's a	
HC2A	IELPTOLHEKHALLLTFFHVSCDNSSFGSTKKFDVVETQVGYSWLPLLFDGFVVTSEQHI
KIAA	IELPTQLHEKHALLLTFFHVSCDNSSKGSTKKEDVVETQVGYSWLPLLKDGEVVTSEQHI
rat.	
H04	
HC1	
HC3	
HC5	
HC2A	PVSANLPSGYLGYGELGMGRHYGPEIFWVDGGKPLLKISTHLVSTVYTCDGHLHNFFGYC
	PVSANLPSGILGIQELGAGAA:GPEIFWVDGGAPLHAISIAUVSIVIIQDQAHAAFFTIC
KIAA	PVSANLPSGYLGYGELGMGEHYGPEIEWVDGGKPLLKISTHLVSTVYTQDGHLHNFFQYC
rat	
HC4	
HC1	
H N	
11 14	
H NA	CKIEGGAÇAD SNELVKYLKSLHAMEGRVMIAFDETILNULFRVLT-RATQEEVAVNVIRV
FIAA	FTFO WALAL WELLVEYLED BAMEGEVALARURULLWQLFRVLTHRATQREVAVLVLEV
rat.	
	MEIQVLIRFLSVILMQLFWVLPNMIHELLVPISCEMV
HC4	
HC1	
HC3	NESESLSNSMEDISGTPTSPDDEVESIIGSKGLDESNSWVNTGGPKAAPWGSNPSPSAES
11/2.5	

HC2A RIAA rut	::HYVAQCHEEGLESHLRSYVKYAYKAEPYVASEYKTYHEELTKSMTTILKPSADFLTSN ::HYVAQCHEEGLESHLRSYVKYAYKAEPYVASEYKTYHEELTKSMTTILKPSADFLTSN
HC4 HC1 HC3 HC5	LFHIVSKCHEEGLDSYLSSFIKYSPREGKESAPQAPLIHETLATMMIALLKQSADELAIN LPDITAKCHEEQLDHSYDSYIFFVEKTRACKERPYHEDLAKNVTGLIK-SNDSPTVK TQAMDRSCNRMSSHTETBSFLQTLTGRIPTKKLPHEELALQWVVCSG3VRE
nCD	Cadherin
HC2A KIAA rat	Cl <u>eavag</u> e KULRYSWFFFDVLIESMAQHLIENSEVELLANQRFPASYHHAAETVVNMLMPHITGEFGD KULEYSWFFFDVLIESMAQHLIENSEVELLANQRFPASYHHAVETVVNMLMPHITQEFRD
HC4 HC1 HC3 HC5	KULHYSWEFFEIIAESMATYLLEENKIELTEGGREPKAYRHALESUFLAIT-IMES QMAE HVLKESWEFFAIILESMAGELIDTNKIGLEEPGREPESYGNELENLVMVLSDEVIWEYKD SALQGAWEFFELMVESYVEHLLYENDKLEAFRKSBEPEREMDDIAALVSTIASDIVSELGK
HC2A KIAA	NPEAS KNANHSLAVEI HEGETEMDEGEVER QINNVISGFAPGJPKTLFEYFFEEL NPEAS KNANHSLAVEI HEGETEMDES EVEF QINNVISGFAPGJPKTLFEYFFEEL
rat HC4 HC1 HC3	1PKECRNVNYSLAGFLEGGLTLMDEGFVFNLINDYISGFSPHEPKVLAEYFFEFL ALEETRRATHSVARELEEGFTEMDEGGVFFMVNNYISMFSSGLLKTLCQYFFDFL DTEMVERLNTSLAFFLNDLLSVMDEGFVFSLIKSCYKOVSSKLYSLENPSVLVSLELDFL
нс5	
HC2A KIAA rat	RMVCMHEHYIPLNUFMFFGEGEIQFYQDUQLDUSITDEF RMVCMHEHYIPLNUFMFFGEGEIQFVQDUQLDUSITDEF
HC4 HC1 HC3 HC5	QTICMHEHYIPLNLEMAFAFPRLQFYQUSNLEYSLSDEY QEVCQHUHFIPLCLEIRBANIFDPITFSESTQELHASDMPEYSVTNEF RIIGSHEHYVTLNLFCSLLTPFASFSFSVSSATSQSSCFSTNYQDQFIANMFELSVPF MNADTAFTSFCFSISSQNSSSCSSFQDQFIASMFDRTSRVFA
HC2A KIAA	Cadherin EC <u>mot</u> .f CRNHFLYGLLIRE/GTALQEFREVRLIAISVLENLLIKHSFEURYASRSHQARIAT CRNHFLYGLLIRE/GTALQEFREVRLIAISVLENLLIKHSFEURYASRSHQARIAT
rat H04 H01 H05 H05	CKHHFLVGLLLEFTSIAN, DNYEIBYTATSVIENLI IKHAFDUBY ÇHKNQQAKIAÇ CKHHFLIGILLEF 'GFA (ÇEDÇDNEHLALAVIKNINAKHSED) RYBEFBKQAQIAC E, ÇHYLAGINLUHLAVI (DELAKOLETIHKEV IMVHNILISCHDET RYSDEÇIKABVAN CVIDE (ÇETH) AAA (DAF EGIDEN ÇERATUALHULLUHUNIN BUVKEFVKUKIAA
HJZA KIAA	LYLELEGILIENVÇRINVEDVSPEEVNAG-MTVEDESLALPAVNPLVTPQKGSTLDNS DE LYLPDEGLLIENVQRINVEDVSPEEVNAG-MTVEDESLALPAVNPLVTPQKGSTLDNSLE
HD4 HD1 HD7	I YI E EVGLEBENI JE LAGRITTLYSCAARENSAGRIEFPOGFTSFANEGSLS E MM I YMMLIJ IMBE I YEKT LYBETVITTINJ GOBELLIGTNGGEJO JTA I EHANSVITTIFO E YLELI G I IMETVEÇIYOFTETENGEOPFI OTATODYFOESGCMIO

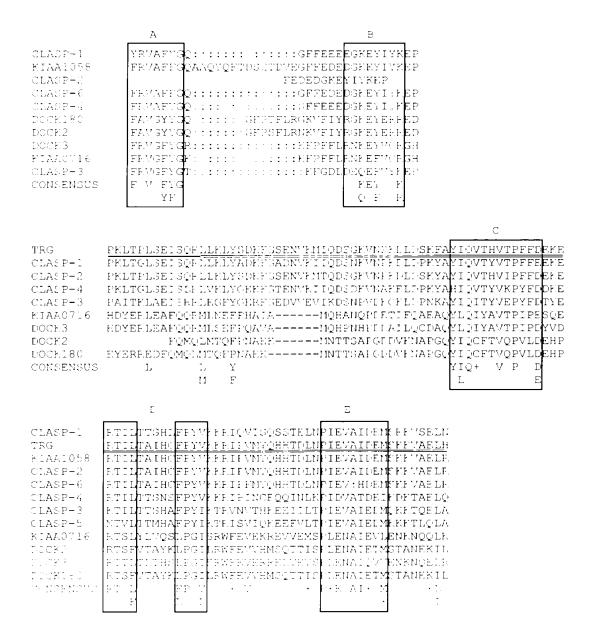
HC2A K1AA rat	KOLLGAISGIASPYTTSTPNINS 'RNADSRGSLISTDSGNSLPERNSEKSNSLDKHQQSS KULLGAISGIASPYTTSTFNINS 'RNADSRGSLISTDSGNSLPERNSEKSNSLDKHQQSS
H04 H01 H03	TDKDTAYGSFQNGHGIKREDGRGSLIP-EGATGFPDQGNTGENTRQG KDVLNSIAAFSSIAISTVNHADDWASLASLDSNPSTNEKSSEKIDNCEKIPRSL QTVAMA(AGTSVE,
HQ5	ÇNYALATAGNUFULKTSG-IYLSSLP7EÇ7N
HC2A KIAA rat	TLGNS.77E.CDKLDQSEIKSLLMJFDYILKSMSDDAUFTYWN-KASTSELMDFFTISE7JL TLGNS77ECDKLDQSEIKSLLMJFDYILKSMSDDAUFTYWN-KASTBELMDFFTISE7JL
HC4 HC1 HC3 HC5	STRSSYSQYNRLDQYEIRSLLMOYLYIVEHISEDTLLTYWN-KVSPQELINILILLEYOL ALIGSTLEFDRLDQAETRSLLMOFLHIMKTISYETLIAYWQ-RAPSPEVGDFFSILDYOL TFSAESSRSLLTOLIWVLKN-ADETYLQKWFTDLSVLQLNRLLDLLYLOV MLNAOTTRNLMIOFLWIMEN-ADQSLIRKWIADLPSTQLNRILDLLFIOV
EC2A EIAA rat	HQFQYMGFEMIAENQEGLGPIMHURKS
HC4 HC1 HC3 HC5	FHER MIGHEMI ARMHDAWLSKEFGI DRES
HC2A KIAA rat	HAFILDOLGSLDNSLTENHSYGH.DADVLHQSLDEANIATEVO HAFILDOLGSLDNSLTENHSYGH.DADVLHQSLDEANIATEVO
F04 F01 E03 E05	QAFIGHLSSLE:SFTUNHSSTTTEADIFHQALLEGNTATE/SQRESQTDFIIRGKNALSHPELICMLINTMTSNSHEIDIVHHVDTEANIATEGCRESFGQLEFSPSGGAFGSQEHLEWFFDMTHWRCHTEKLDK EAEIFHEALIDGNLATEANREAFGHUFFPGLNEHLEWFFEQTHWRCANEKLDKTEAELDQEALISGNLATEAH
HC2A FIAA rat EC4 EC3 EC5	LTALDTLS I FTLAFKNQLLADEGENS LMEEVE I VYLOFLQEEQS ETALKNVFTALES LIV LTALDTLS I FTLAFENQLLADEGENS LHEEVE DVYLOFLQEEQS ETALKNVFTALES LIV 
E 17A E 1AA Yat H04 H01 H02 H05	FETOTIFUE CHAIM AALOYE LIKOONOF LOTTE CEASOLU FUMBUU FUUTOKESEVE UE EFFOTETE CHAIM AALOYETUKOONOF LOTTE EAGOLU FUMBUUFUTOKESEVETE EFFOTEYE CHAIM AALOYETUKOONOF LOTTE EAGOLU FUMBUUFUTOKESEVETE EFFOTEYE CHAIM AALOYETUKOONOF LOTTE STELLEASALU LUMMNEYTKRETELETH KEPSAFEKORNING AAFOYETUKOONEESE STOTEASALU LUMMNEYTKRETELETH KEPSAFEYOO PADLOGSFOYETUKOONEESE STOTEASALU LEMRENFEENKOKSI VECH KEPSALUFEEETEQOADLOLRILIRHOSSOIGTIEG HPSASLVLUMRONFEIGNNFARVK KEGDULFEEEVEQOEDLOHOTUHHOSSOMDWIELQACAILYLUMRESFGAISNFARVK
ECLY	LQVIISVSQLIADVVGIGETRFÇÇSLGIINNCANSDRLIKHTSFSSDVKDLTKRIRTVLM

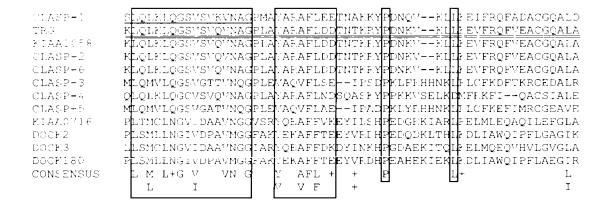
minimuntung kalampanaa napitawasi takimiasi Tussi mitu tid

## Transmembrane

HC2A FIAA FAA HC4 HC3 HC5	ATAQMKEHENDPEMLVDLQY ATAQMKEHENDPEMLVDLQY ATAQMKEHENDPEMLVDLQY ATAQMKEHENDPEMLVDLQY ATAQMKEHENDPEMLVDLQY DTVKMKEHQEDPEMLIDLMY DTVKMKEHQEDPEMLMDLMY	(SLAKSVASTPELLKTW (SLAKSVASTPELKTW (SLAKSVASTPELKTW (SLANSVASTPELKTW (RLAKGVQTSPDLKLTW	DÖNNAGEHSERSI PESMAKTHAFINGD PESMAKTHAFINGD PESMAKTHAFINGD	LSEAAMCYVHY LSEAAMCYVHY FSEAAMCYVHY LSEAAMCYTHT HAEAA_CL/HS
		3113		
HC3A KIAA rat HC4	TALVAEYDTHKSV TALVAEYDTHEA TALVAEYDTHEAD AALVAETDHEKKU	V DWEPPLLPHSH : -LALQHEPPVFP:SH ?	ADLERSEGOVYEQ SOÇEKSEGOMPEQ PEN	GOTAFEMITEN GOTAFEMITEN GOSAFERITEN
HC3 HC5	AALTAEYLEEKSTWKVEKIC AALTAEYLEMLED AALTAEYLEMLED	<del> </del>	REYLEY	GOVTE-NIBEN
HC2A KIAA rat HC4 HC1 HC3 HC5	I DEBAS MMEDVGMQD I DEBAS MMEDVGMQD I DEBAS MMEDVGMQD I DEB GAMER BAGNME I KEB GAAKEE SGMRE VLEFS AVS EDVIVISHE BEGIC VLEFS VVS EDVILISES EDGVC	VERNEIWLMEILE VERNEIVLMELLE VERSEEVLLEILE TERNEILVEGLYM SGEMETESGLYGILE	CAE GLWPAEFSE I CAE GLWPAEFSE I CAE GLWFAEFEFA CYNGLWFAEFSE I CGEFLWFGEFSE I AAA: FSMAGNYEA	IADIYELI IBI GLLTSINSBSE GBEISHIIGBI JADVNERI IAV VNEWTEVILBI
	ITAN I	TAI:	LTAM	ITAM
HC/A KIAA rat HC4 HC1 HC3 HC5	TEMPED - TEMPERARITETTERA  WEST GOTHETTERA  TEMPE FENLT OF STUPIES  FEKOF DEFE LS DL TYDIHES  HEANE DASE LS TURGELOFA  LEAREDERE LS TURGELOFA	MSE VIEVITE MIE ILEMMHIKKE LLG MIEVAF VVNSEKE LEG FSE IVHQSIGWEEMEG	A A:381	WDLLFGGLFGÇ -TFFFVAFYGÇ -RYYFVAFYGÇ
HC2A KIAA rat EC4 EC1 EC1	-FFEDEDGKENIYEERLITE GFFEDEDGKENIYEERLITE GFFEDEDGKENIYEERLITE GFFEDEDGKENIYEERLITE GFFEDEDGKENIYEERLITE GFFEDEDGKENYEERLITE GFFEDEDGKENYEERLITE CKFGONDEGFEVYEENAITK	CLSEISGELLEISSDE? CLSEISGELLEISDE? CLSEISLELVKISGEE? CLSEISGELLEISADE? CLAEISHELEG!USEF?	SCENVENT COSSE SCENVENT COSSE STENVENT COSSE SADNYENT COSSE SE DYVENT COSSE	VNEEL LESETA VNEELLEETA VNEELLEETA VDECELDENKA
HC2A KIAA rat H 14 HC1 HC3 H 3	TAN  VIQUITHVIE PROBERIQEEK  VIQUITHVIE PROBERIQEEK  HIQVITYVKEYPOUKBITERK  VIQUITYVKEYPOUKBITERK  VIQUITYVREYFOUKBIEDEK  VIQUITYVREYFOUKBIES	TEFEROHNIRLFMFEM TEFERNHDISHFYFEAL TOFEMHHDINRFYFETI TYFOKNYNURRFMYOTI	PETQTGERQGGVEI PETQTGERQGGVEI PETLSGERQGGIFE PETLSGKKHGGVAI PETLDGRAHGRIHE	EQCFFHTILTA EQCHFHTILTA EQCHFHTILTT EQCHEHTILTT EQCHEHTILTT

	Coiled-Coil 1
HC2A	IHOFPYVKERIPVMYQHHTDLNFLEVAIDEMSKKVAELRQLOSSAEVDMIKLQLKLQQSV
KIAA	IHOFFYVKERIPVMYQHHTDLNFTEVAIDEMSEKVAELRQLOSSAEVEMIKLQLELQQSV
rat	THOEPYTKKETPYMYQHHTDLNPTEVATDEMSKKVABLHQLOSSABYDMIKLQLFLQQSV
HC 4	SNSFBYVKKKIPINGEQINLKPHDGATDELKBKVABLQKLGSSHDVBMIQLQLKLQDWV
HC1	SHLFPWWKKRIQMISQSSTELNPTEVAIDEMSFKWSELNOLGTMEEVDMISLQLKLQGKW
наз	SHAFPYIKTEVNYTHKEEIILTPTEVAIEDMOFKTOELAFATHOOPADPKMLOMVLOJEV
нав	MHAFPYSKIRISVIOKEEFVLIPIEVAIEDMEEKILOLAVAINOEPPEAKMLOMVLOJSV
	Coiled-Coil 2
HC2A	SYQVNAGPLA (ARAFLIDDINIKRI PDNKVELLE EVFEQEVEACGÇA <mark>LAYNERL LEEDQLE</mark>
KIAA	SZÓVNAGPLA JAKAFUDDTNTEKYPDNKVELLE EVFEÓFVEAGGÓÁLAVNERLI FEDÓLE
rat	SYOVNAGPLA (ARAFLIDDTNTKKYPONKYRLLE EVFROFVEAGGOÁLAVNERLI F.EDÓLE)
HC4	SZOVNAGPLATABAFLNDSQASEYPPKKZSEJEDNFERFIQACSÍALELNEFLIFEDÖVE
HCL	MANNAGPMA MARAFIBETNAKKY PONOMKILKET FROFADACGCALT VNERLI KETÖLE
HC3	STIVNOGPLEVAQAFLSE I PSDEKLERÄHNKLELGEF DETERGEDÄLEKNES LIGEVÖKE
HC5	BATYNÖGPLEVAÖNFLAEIPADERLYRHHNKLELOFK BFINROGEAVEKNEELITALÖER
	Corled-Corl 2
HC2A	TOPERMEANMENTAMELSEIMHERN CPLEBKTS-VLPNBLHIENAISGIPTSIMMHGMISS
KIAA	TOBEMFANYFEMAKELSEIMHECLG
rat.	TOBEMFANYFHIERELEDIIVELICEGEDFRATKFPAHLQRHQRETNFHSGERVEGFILS
HC4	FREGLESNEEDMYKELEDIIHEKILQEDIMHSEWMSNTLHVECAISGISSDRGYGSERYA
HCT	YOBELESHYRDMISELSTVMNECITGRODISERGVDQTCTRVISKATFALPTVSISS
HC3	(CRELCRLSSP
HC5	YCQELLKNYNKLKENLRPMIERKI PELYKPI FRVESQKRDS FHRSSFFKCETQLSQGS
0	
	PEM
HC2A	
KIAA	
rat.	CYTLPHEPHYGTCFYMCKLRTTFFANHWFCOAOEEAMGNGFEKEPWTVIFNSRFYFSWCK
HC4	
HC1	SAEV
HC5	
HC5	
EC2A	
KIAA	
rat.	VHIFF
HC4	
HC1	
HC3	
H 15	





DOCK2=KIAA0209 DOCK3=KIAA0299 CLASP2variant=KIAA1058

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THE ACT ATS AAT GOT GAT ACT GOT HEA AWAITHT COT THE COT THE ATA THE THE CAG AAC
ser thromet associate asports all protons er protons protons associate ser ser glm associate.
THA AGE TOO THE TUN ADD TOO CAG GAU HAS AAG ATC GOD AGC ATG TTO GAT CGG ACT TCC
ser ser ser sys ser ser phe old asp gld lys ile ala ser met phe asp arg thr ser
2 - 5 - 2
                                         .51
AGA STA COO 900 AGG AGG ACT TOO TOA COG GGG CTC CTC TTC ACA GAA CTG GCT GCC GCC
argival pro ala ser ser thr ser ser pro cly leu leu phe thriglu leu ala ala ala
CTS GAT GOO GAA SGS GAA GGA ATO AGO GAA OTA CAA AGG AAA GCT GTO AGT GCA ATT CAC
led asp ala glu gly glu gly ile ser glu hal glm arg lys ala val ser ala ile his
AGC CTG CTA AGT TOT CAC GAC CTG GAC CCA (GC TGT GTC AAA CCA GAG GTG AAG GTC AAA
ser led led ser ser his asp led asp pro arg dys val lys pro glu val lys val lys
                                         51
ATC GOO GOO OTT TAC CTA COT TTA GTT GGC ATC ATT TTG GAT GCT TTG CCA CAG CTC TGT
ile ala ala leu tyr leu pro leu val gly .le ile leu asp ala leu pro gln leu cys
                                         0.91
GAC TTT ACA GTT GCA GAT ACT CGC AGA TAC (GC ACC AGT GGC TCG GAT GAA GAA GAA GAA
aspiphe thrival ala aspithr and and tyr and thriser gly ser aspiglu glu glu glu
421
                                        451
GGA GCC GGT GCC ATT ACC CAS AAT GTG GCT (TG GCC ATA GCA GGG AAT AAT TTC AAT TTG
gly ala gly ala ile thr gln asn wal ala leu ala ile ala gly asn asn bhe asn leu
                                     ref 2.1
481
AAA ACA AGT GGA ATA GTG CTG TCT TCC TTG CCC TAT AAG CAG TAC AAC ATG DTG AAC GCG
lys thr ser gly ile val leu ser ser leu pro tyr lys gln tyr asn met leu asn ala
541
GAC ACT ACT CGC AAC CTC ATG ATC TGC TTC CTC TGS ATC ATG AAA AAT GCT GAT CAG AGC
asp thr thr ang ash led met ile cys phe led trp ile met lys ash ala asp gln ser
                                        € 3.1
TTC ATT AGG AAG TGG ATT GCT GAC CTG CCA CCA ACG CAG CTC AAC AGG ATT TTA GAT CTA
led the armitys try the all any two prester this win bou asmoorp the text asp led
THA PITH AAA CAR TOT THA HAN AAA ARE CAN TAT HAR LII IND ART ROTH FOR LIND HAN AAA CAR
led the life by: val led byothe the tyr lyotaly lystalm corpser aspliys values
ACC CAA GIT TIT CAG AAG ICA AGG GAT GIC AAG GCC CGG CIG GAA GAG GCT IIG CIG CGI
thr din val low gin lys ser arg asp val lys ala ard lew diw glw ala lew lew arg
AND SITE ARD CARD HAA GOOD AND STOCKED OUT ON OUTS FOR CARD OUTS AND AND SON
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BB: UTA AAT BAA AAT TIB ASA TBB AAB AAA GAB CAB ACA CAT TGG CGG CAA GCT AAT GAG
aly led ash ald ash led any try lyn lys glu ylb thr his try ang glo ala ash glu
AAG CTA GAT AAA ACA AAG GOC GAG TTA GAT CAA GAA GOC TTG ATC AGT GGC AAT CTG GCT
lys lou dop lys thr lys ala glu led asp gln glu ala leu ile ser gly asm leu ala
                                        991
ACA GAA GCA CAT TTA ATC ATC CTG GAT ATG CAG GAA AAC ATT ATC CAG GCG AGC TOG GCT
thr glu ala his leu ile ile leu asp met gln glu asn ile ile gln ala ser ser ala
                                        1051
CTG GAC TGT AAA GAC AGC CTG CTG GGA GGT GTT CTG AGG GTG CTG GTG AAT TCT CTG AAC
leu asp cys lys asp ser leu leu gly gly val leu arg val leu val asm ser leu asm
                                       1111
1081
TGT GAT CAG AGT ACC ACC TAC CTG ACT CAC TGC TTT GCA ACA CTC CGT GCT CTC ATC GCC
cvs asp oln ser thr thr tyr leu thr his cys phe ala thr leu arg ala leu ile ala
                                        1171
1141
AAG TIT GGA GAC TIA CIC TIC GAA GAG GAG GIG GAA CAG IGI TIC GAC CIA IGI CAC CAA
lys phe gly asp leu leu phe glu glu glu val glu gln cys phe asp leu cys his gln
1201
                                        1231
GTC CTG CAC CAC TGC AGC AGC AGC ATG GAT GTC ACC CGG AGC CAA GCC TGT GCC ACC CTT
val led his his cys ser ser ser met asp val thr arg ser gln ala cys ala thr led
                                       1291
TAC CTC CTC ATG AGG TTC AGT TTT GGA GCC ACC AGT AAT TTT GGA AGA GTA AAG ATG CAA
tyr leu leu met arg phe ser phe gly ala thr ser ash phe ala arg val lys met gln
                                       1351
GTA ACC ATG TOC CTG GCA TOT TTG GTG GGA AGA GCA CCA GAC TTT AAT GAA GAG CAC CTG
val thr met ser leu ala ser leu val gly arg ala pro asp phe asn glu glu his leu
                                        1411
AGA AGA TOO TIG AGG ACA ATT TIG GOO TAT TOA GAA GAG GAC ACA GOO AIG CAG AIG ACT
arg arg ser leu arg thr ile leu ala tyr ser glu glu asp thr ala met gln met thr
                                        1471
not tit odd agg cag gig gag gaa cit cig igi aat cig aat agg aig ita iai gad aca
pro-pro-pro-thr alm valuals so low low cys ash low ash sor sle low tyr asp thr
THE AAA ATH ARE SAA TIT HAR SAA DAT ONT SAG ATH HIT ATH SAT STO ATO IAT ASS ATT WA. THE MEET ARE SID TO BE SID ASS ATT
1561
                                        1591
GRO AAG AGT TAG CAG GOA TOT GOT GAT GTG CGG CTG AGC TGG CTC CAG AAC ATG GCA GAG
all lys for tyr gin als ser pro acp led and led thr trp led gln ash met als gld
orrespondent (pro trespondi respondente del posto alla merconymolecci malchimo alla sala sala
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1711
TTA GTG GCT GAG TAT CTG AGC ATG STG GAG GAC CAC AGC TAC CTG CCC GTG GGC AGT GTC
led wall than blu typ led ser met led blu asp his ser typ led pro val gly ser val
AGO TTO MAG AAT ATT TUT TOO AAT GTG UTG GAG GAG TOT GTG GTO TOT GAG GAC ACC CTG
ser the alm asmille ser ser asmival led gld gld ser val val ser gld asp thr led
                                         1631
TOA COT GAO GAS GAT GGG GTG TGC GOA GGC CAS TAC TTC ACC GAG AGT GGC CT3 GTA 3GC
ser pro asp glu asp gly val bys ala gly gln tyr phe thr glu ser gly leu val gly
                                         1991
OTO OTG GAG CAG GOO GOG GAS OTO TIC AGO ACG GGA GGO TIA TAT GAG ACA GIT AAT GAG
led led gld glm ala ala gld led phe ser thr gly gly led tyr gld thr val ash gld
1921
                                         1951
GTC TAC AAG CTG GTC ATC CCC ATC CTA GAA GCG CAT CGA GAA TTC CGG AAG CTG ACA CTC
val tyr lys led val ile pro ile led glu ala his arg glu phe arg lys led thr led
1981
                                         2011
ACT CAC AGC AAG CTG CAG AGA GCC TTC GAC AGC ATC GTT AAC AAG GAT CAT AAG AGA ATG
thr his ser lys leu gln arg ala phe asp ser ile val asn lys asp his lys arg met
2041
TTT GGA ACC TAC TTC CGA GTT GGT TTC TTT GGA TCC AAA TTT GGG GAT TTG GAT GAA CAG
phe gly thr tyr phe arg val gly phe phe gly ser lys phe gly asp leu asp glu gln
                                         2131
GAG TIT GIC TAC AAA GAG COT GCA ATT ACC AAG DIT COT GAG ATC TCA CAT AGA CIA GAG
glu phe val tyr lys glu pro ala ile thr lys leu pro glu ile ser his arg leu glu
                                         2191
GCA TTT TAT GGT CAA TGT TTT GGT GCA GAA TTT GTG GAA GTG ATT AAA GAC TCC ACT CCT
ala phe tyr gly gln cys phe gly ala glu phe val glu val ile lys asp ser thr pro
             ref 4.1
                                         2251
0221 V 2251

GTG GAN AAA ACC AAG TTG GAT CHT AAC AAG GCC TAC ATA CAG ATC ACT TTT GTG GAG CCC
val asp lys thr lys leu asp pro ash lys ala tyr ile gln ile thr phe val glu pro
2281
TAC TIT GAT GAG TAT GAG ATG AAA GAC AGG GTC ACA TAC TIT GAG AAG AAT TIC AAC CIC
tyr pho app glu tyr glu met lys asp arg val thr tyr pho glu lys ash pho ash lou
ng Agaisti Ata tah ani Ani ni titu Anisti kabahat na hitonah at
and and the met type the thirty of the true less also gly and procard gry gls less his
. 9 .
1943, 143, 141, 434, 435, 447, 464, 376, 373, 439, 467, 478, 648, 366, TTC, 666, TAC, 476, 448, 466
glu glm tyr arg arg ash thr wal low thr thr met his ala phe pro tyr ile lys thr
ARE TTA OTE DOT AND TAKEN ARE HAD HARE TOO DOT TO RAIL ON THE ARE HAD BEEN AND TO RETER ARE
any isomerous, ile and by this all phe was not the profile and was also are also
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2551
BATHATBHAABHAAG AAG ACC OTS CABITTA GOA STI GOO ATT AAC CAG GAB COB COI GAI GOA
asp met lys lys lys thr leu gln leu ala zal ala ile asn gln glu pro pro asp ala
                                          3611
AAR ALR MIT MAR ATROSTS OTS MAA 93% TOT STS SSA GOT ACT GTA AAT CAG GGA GOA GTG
lyk met led din met mai led sin bly gen mal dly did thr val don din gly pro led
                                          2671
GAA GTA GCC CAA GTG ITT TTG GCT GAA ATT CCT GCT GAT CCA AAA CTC TAT CGA CAT CAC
glu val ala glm val che leu ala glu ile pro ala asp pro lys leu tyr arg his his
AAC AAG TIG AGG ITA IGC TIT AAG GAA TIC AIC AIG AGA IGI GGI GAA GCI GIA GAG AAA
ann lyn les and les typ phe lys old phe lie met ang bys gly glu ala val glu lys
2761
ARC ARGINGT OTH ATC ACSIGCA GAINCAG AGGINAA TAT CAG CAGIGAA CTC AAA AAG AAC TAT
ush lys and led ile thi alw asp gln and old tyr gln gln glu led lys lys ash tyr
2821
                                          . 851
AAC AAG CTA AAA GAG AAC CTC AGG CCA ATG ATC GAG CGG AAA ATT CCA GAA CTG TAC AAG
ash lys leu lys glu ash leu arg pro met .le glu arg lys ile pro glu leu tyr lys
2881
                                          .911
CCA ATA TTO AGA GTT GAG AGT CAA AAG AGG GAC TCC TTC CAC AGA TCT AGT TTC AGG AAA
pro ile phe arg val glu ser gln lys arg asp ser phe his arg ser ser phe arg lys
                                          . 971
TGT GAA ACC CAG TTG TCA CAG GGC AGC TAA (AA AAG CCA TCT TCA TTC GTG GAG ACT GTG
cys glu thr gln leu ser gln aly ser OCH
                                           +0.31
GCC CTG CAA CCC TGG AGA AGG ACT TGC TGG TAC TTA AAA AAT GGG ACA TTT GCC ACC CAG
                                          -0.91
MAG TGA CTH TAG ACT COO TGA TOA GOO AGO ACT CTG GAA GOT TTG GGA TOO CAG GAA COA
                                           151
TGG AAT TAT TOO CAA ATG GAC TOT GAC CAG ATT TTT GCC ATA CTG GGG GGT GGC GGG ATG
GAR DAT GUY TAO ITA GON ATH ACT GON TAI TA ITA AAR EGE HIT ITT GOA GAA IGI ACC
100
ART ARA FARTON AND AND DEPONDED AND EXCLAPATION OF THE CONTROL OF A CARLANA CONTROL ARA ARA
ASO TAA AAG SAT TAA ATT TAA ATT TAT TU AGT DAA TUA AGT TAG GTG AGG AAA AAT GSA
3361
                                          3391
AAA ATT ATO GAO GAG TOG ATT GAA ACT GAA TIT CAC TOT TIA TAG GAA GGO AGG GCA AAC
ARD DIT SADE AND AND DET DOE AAR EER EEN DIT DAA ADA ADT DIT ADA AAR DAT DIE EAR DAA
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AAA TOA TOA TOO TTO GAA ATT TOO GAO GAO ATT ATT TOT GAA GIT GIT ACC CIT ITO GIA 1571 3541 ATS STO JAN TAA TIE STO PAT AST TAT TIT TET TIT ATT ATT ATT ACT GOT ACA TIA ATT TAA CAT SCA TIT ATA GAA GAA TAC ATT CAA AGG ACT GAT STA SGA GAT ACA CSS TAC TIG GAG 3661 1691 CAG TOA GOO AAA AAT CAO AGA TAO TGO TTT CAG TTA AAT GGA AAC AAT TOT COG ATA ATG CTT TOC TIT TIT TOT TAT GTC ACT CTT GTG TAC TAT CTA TIT ITC TCC TCT CTG GGA CCA ACT TIS TIT TTA TAA AGG AAT AAT ATC TOT OTT TTC ATT TOA GAA CAT TGT GOT GTC TGT 3871 3.841 CAG CAT ATG TAT ATG AGG TAG AAA ATA TAT ICA AGT TTG AGT TGT TTT GAG AAA GGA GTY 3931 TAG GAA AAG GAG GAA CAA AGA CAT TAT TTG AGA ATT AAA TTA TAT ATT TTT AAT ATG ACT 3961 991 OTS ACC TIG ACT SAT AAT AAA PAT GIA ATA AGA ATI GCA AGC IAA AAA AAA AAA AAA AAA 4021 AAC TCG

## Ref 1.1

Sequence of BAC19 using primer EC5S11, which spans nucleotides 3-22 of the cDNA.Exon sequence is underlined and represents nucleotides 32-57.

CTCTCTGTCTTCATATCTTCCAGGITATAAAGNATTATTTACTAAAAGAANATTCANGC
TATTTCATTTAACTAGCTCAGTTTAATCATGTATTTCCTATAAAGGTTAGTCTTATTAAT
TTGACAAAACAATCAAACAATTCAAACCAGATCAAGTATGCTACCCTGAAGTTACACC
ACTAGTTAAGAATTAACAATCTAAGTAATTGGTTTCTCCCCAGGCTCAAGGCTCCCTGA
TCAAGGTTAAGTAAGCCAACAATCCAATAAGCCCTATGAAATTTAGAAACTCATAGAA
AAGTTTAAAATTTTTGTTGTTTGAACATTAGCAATTGTTATATTATGCAAATAGAGGATT
MAAATTAAGAAATGCCGAGAGCAAAGAGGAATGGAGAGGGGNTGTAAGNGG
TTCCAATNTTACTGGAACCCACCACTATCTTTNGAAGTCTTGATACTTAACTGNGTGTA
MCTCTTTAGGCCTNTANTAANCAGAATCTATATGGATTCGTGTTCTGTCNGCAAGNAG
TGCCTATGAAA

#### Ref 2.1

Sequence of BAC19 using primer HC5AS10b, which spans nucleotides 567-580 of Exon sequence is underlined and represents nucleotides 510-563.

## Ref 3.1

#### Ref 4.1

Sequence of FACIS using primer CES7, which spans nucleations 10.6-2205 of the cDNA. Emon sequence is underlined and represents nucleations 2205-2231.

ADVAGAGORAGO ACCIDENTAR VEGCCARCANDOTT FOUTANGAGORAGO ACCIDENCARD ACCID

Under the common expression of the filter  $\frac{1}{2}$  and  $\frac{1}{2}$  and

and the second	
KIAA	ASGNIDKNARFSAIYEJOSNKISNDDMIKILADFEKPEKMAKIPVILGNIDITIDNVSSO
rat	
11 14	
11.1	
HC 5	
HC5	
Hee'	
HC2A	<u></u>
KIAA	FPNYVNSSY:PTKQFETCSKTP!TFEMEEFVPC:PKHTQPYT:YTNHLYVYPKYLKYDSQ
rat	
HC4	
HC1	
H.13	
11 c f.	
HC2A	WIHHHQNPbbydeik
KIAA	KSFAKARNIAICIEFKDSDEEDSQPLECIYGRPGGPVFTRSAFAAVLHHHQNPEFYDEIK
rat.	
HC4	
HC1	
HC3	
HCf	
HC2 A	IELPTOLHEKHHLLLTFFHVSCDNSSKGSTKKRDVVETOVGYSWLPLLKDGRVVTSEOHI
KIAA	IELPTOLHEKHHLLLTFFHVSCDNSS: GSTKKRDVVETOVGYSWLPLLEGRVVTSEOHI
rat	TBBI TQBBBMMEEBITEM GCDMAAA GCTAMAAA A TQAGTONBI BBABGAAA TOBQIIT
EC.	
HC1	
HC3	
HC5	
HU C	
1106.7	DUOLNU DOCULOVODY OMODUVODBILLUUDOOL DLI VIAMUU VOMUVMS BOUY INVERSUA
HC2A	PVSANLPSGYLGYQELGMGRHYGPEI WVDGGNPLLKISTHLVSTVYTQDQHLHNFFQYC
KIAA	PVSANLPSGYLGYQELGMGRHYGPEIKWVDGGKPLLKISTHLVSTYYTQDQHLHNFFQYC
rat	
H-14	
HC1	
H23	
B 1	
H 1. 7.	, FOR CHA, ACHORECURECE COLEANE SHOW, AFOR TOOM, DEROID—FAT, EEUACOUTED
2 17/A	, KTEOGA, ALGORELLERI, KULHAMBGELMIARI PILILU, I PRULUHRAT, KELAUTUTEK
iat	
HC4	HEIQVLIRFLSVILMQLFWVLRNMIHEDDVPISCRMV
HC1	
::- 3	NEGRATIONSMET TO ALBLOUDT EMBS FIGURAL DESIGNAMM LOGERATE AND CONDUCTOR FOR
11.16	The state of the s

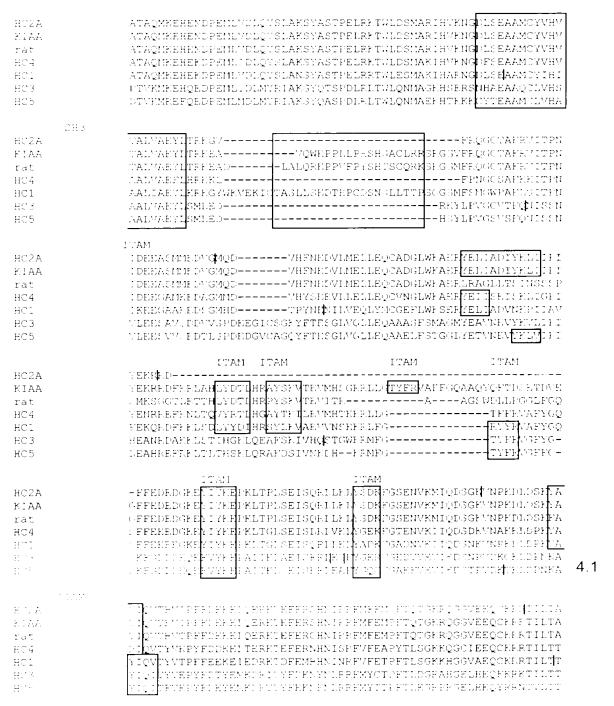
# Refs

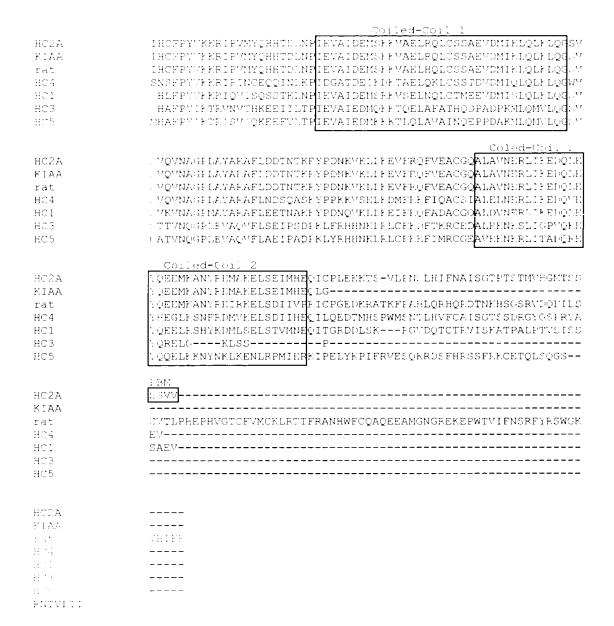
HC2A KIAA	IIHVVA]CHEEGLESHLRYYVKYAYKAEPYVASEYKTYHEELTKSMTTILKPSADFLTSN IIHVVAQCHEEGLESHLRSYVKYAYKAEPYVASEYKT/HEELTKSMTTILKPSADFLTSN
rat 804 801 803 805	LPHINGKOHREGLICYLOGFIKYSORPGKISSAPQAPLIHETLADMMIALLKQSADFLAIN LPDIVAKOHEEQLUHSYQSYIKFVFKTRACKERP/HEDLAKNYTGLLK-SNDSPTVK TQAMDFJCNPMSSHTETSSFLQTLTGRLPTKKL-HEELALQWVVCJG-JVRE
HCD	Cadherin Cleavage
HCCA KIAA	KLURYSUFFFOVLIESMAGHLIENSKVELIENGRFPASYHHAAETVVNMLMPHIIGKFGD KLUKYSUFFFIVLIESMAGHLIENSKVELIENGRFPASYHHAVETVVNMLMPHIIGKFRD
rat HC4 HC1 HC3 HC5	KLLKYSWEFFEIIAKSMATYLLEENKIKLTHGQREPKAYHHALHSLELAIT-I'MSQYAE HVLMHSWEFFAIILKSMAQHLIDTNKIQLEE,PQREPESYQNELDWLVMVLGDH''IWKYKD SALQQAWEFFELMYKSMVHHLYFNDKLEAFKKSHEPEREMDDTAALVSTIASDT''S REQK
700	
HC2A KIAA cat	NPRASENANHSLAVETERGETEMDIGEVERGINNETSGEARGDHKULFEGKEEFL NPEASENANHSLAVETERGETEMDEGEVERGINNITSGEARGDPHTLEEVKEEFL
HC4 HC1 HC3 HC5	IPKESKNYNYSLASFLEGGLTLMDESFYFNLINDYISGESPEDPEYLANYFFEFL ALEETELATHSVARFLERGFTFMDESGYFKMYNNYISMFSSGDLETLGQYKFDFL DTEMYELLNTSLAFFLEGLLSYMDESFYFSIIKSGYKQVSSKLYSLENPKYLYNLELDFL
HC2A KIAA rat	RVVCNHEHYIPLNLEMPFGKGRIQE
.a. 104 101 103 105	QTICNHEHYIPLNLEMAFAKEKLQRVQDSNLEYGLSDEY QEVCQHEHFIPLGLPIS SANIPDPLTPSESTGELHASIMPEYGVTNEF RIICSHEHYVTLNLPGS LLTPPASESESVSS ATS QSSGFSTNVGDGKIANMFELKVPF MGADTAPTSEGPSISSQNSSSGSSFQDGKIASMFDKTSRVPA
	Cadherun
IC2A (IAA .at	EC_motif CRNHFLVGLLLREVGT#LQEFREVRLIAISYLKHLLIKHSFDDRYASR\$HQARIAT CRNHFLVGLLLREVGT#LQEFREVRLIAISYLKHLLIKHSFBDRYASRSRQARIAT
604 101 101 101	CKHHFLVGLLLRETSIALQDNYEIRYTAISVIKHLLIKHAFDTRYQHKNQQAKIAQ CFKHFLLGILLREVGF/LQEDQDVRHIALAMLKHIMAEHSFDDRYFFPRQAQIAS FIGHYLAGIVITELAVILHEDAEGI/GUHKFVINMUHNULSSHDSDFRYSDDGIKARVAM CCTC-ZESILFTELAA/LFASKESIJEVQPRAVSAIHELLSSHDLDFFTVKPEVKVKIAA
ET. A IIAA tat	TYTETEST TERMINETTUREN, EFFUNAS-EFTURTED ALEAUNETUTE (FUUTILM, LE LYTPLEGITTENVÇKINVKUVEPERVNAG-MTVKEESTALPAVNPLVTPQKGSTLDNSTLE
rat 804 801 803	LYLPFYGLLENIGPLAGROTI YSCAAMPNSASRDEFPGGFTSPANRGSLS LYMPLYGMLLDNMPRIYLEDI YPFTYNTSM;GSRDDLSTNGGFQSQTAIKHANSVDTSFS LYLPLIGI IMFTYE,M.YOFTEI HNQRGFPIGIATTI YEUECUSMIS
	TATE THE TATE OF THE MESSER HORSES OF THE TARGET FROM THE TATE OF

		Refs
H22A	KULLGAISG (ASPYTTSTPNINSVRNADSRGSLISTDSGNSLPERNSEKSNSLDHHGQSS	
KIAA	KILLGAIGGÍASPYTTSTENINSVRNALSKGSLISTDSGNSLPERNSEKSNSLDKHQQSS	
ist		
HC1	TOKOTAYGSFQUGHUIKREDSLGSLIP-EGATGFPDQGUTGENTRQS	
H.7.1	KUULNU (AAFSSIAISTYNHADSKASLASLDSNPSTNEKSSEKTDNOFKIPRPL QTVAMA (AGTSVPQ	
HC3	QTVAMA: AGTSVPQLTRPG: FLLTSTSGRQHT	2.1
HC5	QNVALA:AGNNFNLKTSG-IVLS\$DPYEQYN	۷. ۱
нс2А	TLGN 3YURODKLDOSEIKSLUMOFLYILKSMSDDALFTYWN-KASTSELMDFFTISEYOL	
KIAA	TIGN NARCDKLDOSEIKSLLMOFLYILKSMSDDALFTYWN-KASTSELMDFFTISEMOL	
rāt		
EC4	STRS3VSQYNRLDQYEIRSLLMCYLYIVKMISEDTLLTYWN-KVSPQELIMILILLEVCL	
HC1	ALIGSTLREDRU QAETESLLMCFLHIMETISYETLIAYWQ-FAPSPEVSDFFSILDVCL	
H2.3	TF: AESSRSILLICLLMYLEM-ADETVLQFWFTPLSVLQLMRLLDLL7L/CV	
HOR	MINADTTFNIMICHLWIMRU-ADQSLIREWIADLPSTQIMRILDELFIC/	
HC2A	HOPOTIGKEYIAENQEGIGPIVHDRES QTDPVSKNR TGMM	
KIAA	HQFQTMGKEYIAETGI44	
rat		
HC4	FEFRYNGKENIAEVEDAWLSKHFGIDRES	
HC1	QNFRYLGKENIIEKIAAAFEFYQSTQNMGTLKGSNPSCQTSGLLAQWMESTSREEGHY.	
HC3	SOFETEGKKVFEHMNSLTFKKSKDMRARLEEAILGSIGAFQEMV	
HC5	LOPEYHGKQSSDFVSTQVLQKSRDVKAFLEEALLRGEGAFGEID	
HC2A	HARLQQLGSUDNSLTFNHSYGHSDADVLHQSULEANIATEV:	
KIAA	HARLOOLGSLDNSLTFNHSYCHSDADVLEQSLLEANIATEVI	
rat		
HC4	OARLOHLSSLESSFTLNHSSTTTEADIFHQALLEGNTATHY.	
HC1	QHRSQTLPIIRGHMALSNPKLLQMLDNTMTSNSNEIDIVHHVDTEANIATEG	
HC3	RRSRGQIERSPSGSAFGSQENLRNRKDMTHURQNTEKLIKSRAEIEHEALIDGNLATEAN	
HC5	RRRAPGNDRFPGLNENDRWEKEQTHWRQANEKLIETKAELDQEADISGNLATEAH	
HC2A	LTALDTLSLFTLAFMNOLLADEGENFLMKEMFDMYLOFLQKEQSETALENMFTALE.3LIY	
KIAA	LTALDTLSLFTLAFKNOLLADEGENPLMEEMFDVYLCFLQKHQSETALENVFTALE 3L1:	
rat	======================================	
HC4	LTVLDTISFFTOG FKTHFLNNDGHDPLMKEVFDIHLAFIFDGGSEVSLFHVFASLEAFIJ	
нс1	LTILDLYSLFTQTHQRQTQCDCQNSLMKFGFDTYMLFFQVNQSATALKHVFASLKLFV	
HC t	LITLETTUNGT VÖVTERKESTLOTVLKYLLHSMAONQSAVYLQHOFATQRALU	
H 11	o do dimento Janges do respedidir do resultante de la respecta de la compansión de la compa	3.1
H V A	PERCIPPEDALE CAAL FEILF CONFELCCIPTEACCINFEMENTED TOPESFORD	
riaa Yiaa	PERCEPTE SANCTAALIYEDI ETINLELL TITTAA CI IYELMENNED TORROFILI	
r.aa 131	FFFSTFYESRAUNCASICYEVIKCONSFLSSIRTEASCLLYFIMENNFDYTGKESFVRT-	
H.M	FFFORFFEGRUNMCAAFCYEVLKCCTSFISTRNEASALLYLLMENNFEYTKRETFLRCH	
- H. H. - H. J.	FFPSAFFOGPATLOGSFOYEVLKOONHISESTQTEASALLYLFMRKNFETNKQKSIVRS+	
HC3	#FFELLFEETEQCACLCURLEHOSSSIGTIRSHPSASLYLLMRQNFEIGH-NFAR'S	
114.7 147.5	PERCLIPEER REPORT OF THE PROPERTY OF THE PROPE	
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FIG. 4B (3 of 5)

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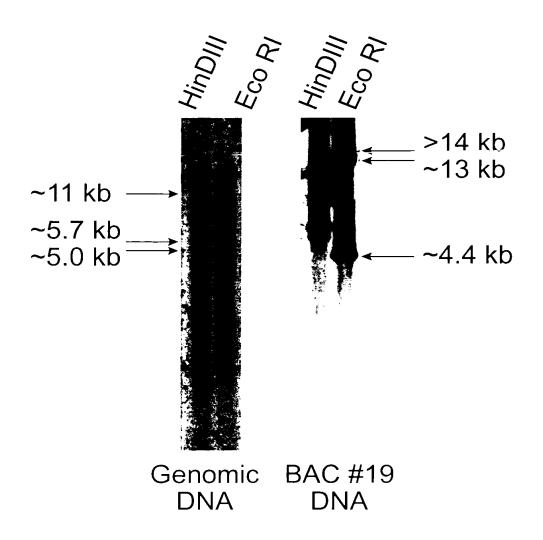


FIG. 5

-111 CGGTAACCGCCATTTTGTCTCCTGTAACAATTTACGCGCCGTGTAACTGTGAATCTTTCAAAGCCTCAGTTTTATGACC CTGTGGAGCCACTTTGAAGGACTTCTG -1

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1/1
ATG ACA TAT OTG AAC AGG OTG GAT GTG CAG OTT GOO CAG GAG CTC GGG GAC TTC ACT GAT
Mer, the his led ach ser led asp wal ain led ala gin gld led gly asp phe thr asp
                                         91/31
GAC GAC TTG GAC GTG GTG TTC ACG CCA AAG GAA TGT AGG ACT TTG CAG CCC TCT TTG CCG
asplaspleu asplval valiphe thriprollysiglu cyalarg thrileu gln prolser leu pro
                                         151.151
121/41
GAG GAA GGG GTT GAA DTG GAC CCT CAT GTC AGG GAC TGT GTT CAG ACC TAD ATD CGT GAG
glu glu gly val glu leu asp pro his val arg asp cys val gln thr tyr ile arg glu
                                         211.71
181/61
TEG STA ATC UTG AAC CGS AAA AAC TAA GGA AGT CCA GAA ATC TGT GGC TTF AAA AAG ACT
trp led lie val asm arg lys asm gin gly ser pro glu ile cys gly phe lys lys thr
241/81
                                         271 191
GGA TOT OGA AAA GAT TIT CAC AAB AOG OIT OOG AAA CAG AOG TIT GAG TOB GAA AOO TIG
gly ser and lys asposse his lys the leapro lys glm the phe glu ser glu the lea
                                         331 11.
301,101
GAG TGC AGT GAA CCC GCT GCT CAG GCA GGC CCC CGC CAC TTA AAC GTG CT3 TGC GAC GTG
glu dys ser glu pro ala ala glh ala gly pro arg his leu asm val leu dys asp val
                                         391,1130
361/121
TOT GGG AAA GGC CCC GTC ACT GCC TGT GAC TTT GAC CTC CGC AGC CTG CAG CCT GAC AAG
ser gly lys gly pro val thr ala cys asp phe asp leu arg ser leu gln pro asp lys
                                         451.5.
421/141
CGG CTA GAA AAC CTC CTG CAG CAA GTG AGT GCC GAG GAC TTT GAG AAG CAG AAC GAG GAG
arg leu glu asn leu leu gln gln wal ser ala glu asp phe glu lys gln asn glu glu
                                         511, [7]
481/161
GCC CGG AGG ACC AAC AGG CAG GCC GAG CTC TTT GCC CTT TAC CCA TCA GTG GAC GAG GAG
ala and and thr ash and gin ala giu leu bhe ala leu tyr pro ser val asp giu giu
                                         571/19.
GAT GCT GTG GAA ATA CGT CCA GTA CCA GAA TGT CCC AAG GAA CAC CTG GGC AAC AGA ATA
asp ala val glu ile arg pro val pro glu dys pro lys glu his leu gly ash arg ile
                                         631/211
TTG GTC AAG TTG CTG ACC TTG AAG TTC GAG ATT GAA ATT GAG CCC CTG TTT GCC AGC ATT
leu val lys leu leu thr leu lys phe glu ile glu ile glu pro leu phe ala ser ile
                                         €91/231
GCC CTC TAC SAT GTT AAA GAA AGG AAA AAG ATC TCA GAA AAT TIT CAC TGE GAC CTG AAC
ala leu tyr asp val lys glu arg lys lys ile ser glu asm phe his cys asp leu asm
721/241
                                         751/251
       CAS TTO ALA GOA TIT DID OGA GOT CAO AGU COT TOA GIG GOO GOA TOA AGI CAG
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        alreghe by many phasis means all fine the process was allegate were denoted
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ATT SAA AAA STO OTS CAS CAS SGA SAT ATT SGA GAC TOT SGA GAS SSC TAC ACG GIT ATC
ile glu lys wal leu sin din bly asp ile sly asp cys ala glu pro tyr thr wal ile
                                         931/311
AAA MAA ART MAT GOT GOA AAG AAA AAA GAA AAG ATT GAA AAA GTA AAA GTC GLA GCT GAA
lys alo sen asp aly aly lys sen lys alo lys alo alo lys leo lys leo alo alo alo alo
                                         331 331
gen gga gan iku am gga saa aya gan saa kas
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TOA AUG TIG TIG AAT GIG TOG AGE GIT GAG AGG GAG GIA AGT PAT GIG GAG TOI GIG GIT
ser ser the phe ash val ser thr let qlu ard qlu val thr usp val asp ser val val
                                         1111:371
SSS ASA ASC TOA STE SST SAA OSS ASS ACA TTS SEC CAA TOT ASA AGS OTT TOT SAA AGA
gly and set fro valigly glu and ard thriles alaighn ser and and les ser glu and
                                         1171/391
GCC TTC TCC TTG GAG GAA AAT GGG GTT GGA TCC AAC TTC AAA ACC TCC ACT CTG AGC GTT
ala leu ser leu glu glu asn gly val gly ser asn phe lys thr ser thr leu ser val
                                         1231/411
AGC AGC TIT TIC AAG CAG GAA GGA GAT CGC CIT AGC GAT GAA GAC TIA TIC AAG TIT ITA
ser ser phe phe lys glm glu gly asp arg leu her asp glu asp leu phe lys phe leu
                                         1291 [431
1261/411
GUT SAC TAG AAA AGA TGA TGA TGC TTA CAG AGA 03A GTC AAG TGA ATT GGA GGC TTG GTA
aia asp tyr lys arg ser ser ser leu glm arg acg val lys ser ile pro gly leu .eu
1321/441
                                         1351 451
AGA DIG GAG ATT TOT AGA GOT COA GAG ATC ATC AAT IGO IGT CIG ACT COI GAA AIG CIG
arg led glu ile ser thr ala pro-glu ile ile asm cys cys led thr pro-glu met led
                                         1411 4"1
1381/461
CCC GTG AAA CCC TTT CCT GAA AAC CGG ACA CGC CCC CAC AAA GAG ATT TTG GAA TTT CCA
pro val lys pro phe pro glu asm arg thr and pro his lys glu ile leu glu phe pro
                                         1471 491
1441/481
ACA CGA GAA GTA TAT GTC CCT CAC ACT GTG TAC A3A AAC CTT CTC TAT GTC TAC CCA CAG
thr are glu val tyr val pro his thr val tyr are asn leu leu tyr val tyr pro gln
                                         1531 '511
1501/501
AGG CTG AAC TIT GTA AAC AAA CTA GCA TCA GCC CGG AAC ATT ACA ATA AAG ATC CAG TTT
arg lew ash phe val ash lys lew ala ser ala arg ash ile thrile lys ile gln phe
                                         1.591\ ^{\prime} \Box \overline{3}1
1561/521
ATG TOT SGA GAA GAT GCT AGG AAT GCG ATG CCG GTC ATG TTT GGA AAA TCC AGC GGG CCT
met by: gly glu asp ala ser asm ala met pro vil ile phe gly lys ser ser gly pro
                                         1651/551
1621/541
GAA TIT CIG CAG GAA GIG TAC ACA GCT GIT ACA TAC CAT AAT AAG TCT CCT GAC TIT TAT
quu phe leu glm glu val tyr thr ala val thr tyr his asm lys ser pro asp phe tyr
                                         1711 071
16817561
GAA GAZ, STG AAA ATT AAG CTC CCC GCT AAG CTC ACA GTA AAT CAC CAC CTC CTG TTC ACC
glu gl: val lys ile lys leu pro ala lys leu thr val ash his his leu leu phe thr
1741/581
                                         1771/591
TTC TAC CAT ATC AGC TGT CAG CAG AAG CAA GGA GGC TCC GTG GAA ACT CTC CTG GGA TAT
phe tyr his ile ser cys glm glm lys glm gly ala ser val glu thr leu leu gly tyr
1801/661
                                         1831/611
THA THE STREET AND ATTENTS AND HAR OUT OTH AND AND THE STREET OF THE DEAL WIT
wer hip lew proche led led ann hip armiled ach throply wer tyr wyb led prochal
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AAT THE DEPLATE AAR TROUGHT RAA GRA DAT AAG GRA GTA TIT AAT AIT GAA GIG CAA GOT
ash pro pro ile lys trp ala glu gly his lys gly val phe ash ile glu val gln ala
                                         20117-571
1981/661
GOT TOT TOT GTA TAK AND CAG GAO AND CAG CTG GNG ANG TTO TTO ACC CTC TGC CAC TCC
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2191 7731
2161/721
GTG TTO TTO CTG CAC CTG GTG CTG GAS AAG CTG TTO CAG CTG TOO GTG CAG CCC ATG GTC
val led phe led his led val led asp lys led phe glm led ser val glm pro met val
                                                                     2251775
ATC GCT GGG CAG ACA GCC AAC TTC TCC CAG TTT GCC TTC GAG TCC GTG GTG GCC ATC GCC
ile ala gly glm thr ala asm phe ser glm phe ala phe glu ser val val ala ile ala
22817761
                                                                     3311/771
AAC AGT CTG CAC AAC AGC AAG GAC CTG AGC AAG GAC CAG CAT GGG AGG AAC TGC CTG CTG
ash ser lou his ash ser lys asp lou ser lys asp glh his gly arg ash cys lou lou
                                                                       3717791
 .:41/761
GOT TOO TAI GIG CAO TAO GIG TIO OGO OIG HOA GAG GIG CAA AGG GAI GIG COO AAG ICA
ala ser tyr val his tyr val phe arg leu pro glu val glm arg asp val pro lys ser
.:401 '801
                                                                     .: 431 / 811
BGC BGT GGC AST GGC GTC GTA GAC GGT GGG AGC TAC BAC AGG TAT GGC BGC AGA TCA GGT
_{
m H}ly ala pro thr ala leu leu asp pro arg _{
m er} tyr his thr tyr gly arg thr ser ala
.:461 (821
                                                                     . 491 [831
GCT GCT GTG AGT TCA AAR CTG CTG CAG CCC 100 0170 ATG AGC AGC AGT AAC CCA GAC UTC
ala ala val ser ser lys leu leu glm ala arg "al met ser ser ser asm pro asp leu
                                                                    1551 851
.:521 (841
GCG GGG ACA CAC TOC GCA GCA GAC GAG GAA GTG AAG AAC ATC ATG TOT TOA AAG ATC GCC
ala gly thr his ser ala ala asp glu glu val ly: asm ile met ser ser lys ile ala
                                                                    -..411 - 871
1581 (861
GAT GGC AAC TGC AGC CGA ATG TCT TAC TAT TGC TCT GGC AGT AGT GAT GCT GCA AGT TCA
asplarg ash cys ser argimet ser tyrityr dys der gly ser ser asplala pro ser ser
                                                                     . 571 [831
.:641 1381
CCT GCA GCC CCA AGG CCA GCC AGC AAA AAG CAT TTC CAT GAG GAG CTT GCC CTT CAG ATG
pro ala ala pro arq pro ala ser lys lys his phe his glu glu leu ala leu gln met
                                                                     . 731 911
1701 (901
GTG GTC AGC AGC GGA ATG GTG AAA AGC ATG GCC CAG CAC GTA CAT AAC ATG GAC AAA CGG
	aual 	aual ser thrigly met val lys ser met 	aua 	aul, his val his ash met asp lys arg
J761 '921
                                                                     . 791 951
GAC AGT TIT CGG AGG ACT CGT TIT TCT GAC CGT TITC ATG GAT GAC ATA ACT ACT ATT GIT
asp ser phe and and thr and phe ser asp and phe met asp asp ile thr thr ile wal
                                                                     .351/931
AAT GTG GTG ACC TCG GAA ATT GCA GCC CTT TTA GTA AAA CCA CAG AAG GAA AAT GAA CAG
ash val val thr ser glu ile ala ala leu leu val lys pro gln lys qlu ash glu gln
                                                                      311/971
.:881/961
GOG GAA AAG ATG AAC ATC AGC CTG GCT TTC TTC TTG TAT GAC CTT CTC TCC CTC ATG GAT
ala glu lys met asn ile ser leu ala phe phe leu tyr asp leu leu ser leu met asp
                                                                      971/991
NAME OF TITLETT TITL AND OTE ATO AGAINST TAT TO LABOURS OTE TWO DOWN AND OTE AST
arm gly pie wal phe ach led rie arm his tyr byt ter gle led cer mla lys led som
AAR OTT NOA AND OTH ATT THE ATERIAGE STANDARD THE STANDARD ATTUITS THE AGENCY OF THE GARAGE STANDARD 
CAT TAC CIG AAT SIG AAS SIT TIT TIT ATG AAT SST GAT ACT GGT SCA ACA TST SST TGT
his tyr leu asn leu asn leu phe phe met asn ala asp thr ala pro thr ber pro cys
                                                                     3151/1051
3121/1041
DIE 117 ALA DIE TIT TAR AAN DIA ARD DIE 1900 DIE ARD DE SAR GAR AAR ADE 900
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grander the series a glic active to be to be
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9191/17/1
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3311/1101
                                          3331/1111
GOT GTO AGT GOA ATT CAC AGO OTG OTA AGT TOT CAC GAC OTG GAC COA OGO TGT GTO AAA
ala val ser ala ile his ser leu leu ser ser his asp leu asp pro arg bys val lys
                                           3391 1131
SUM GAU UTU AAS STO AAA ATO SOO SOO STT TAS STA SOT TTA GTT SSO ATO ATT TTG GAT
grouple values values ile ala ala leu tyr leu pro leu valugly ile ile leu asp
3431/1141
                                          3451/1.51
GCT TTG CCA CAG CTC TGT GAC TTT ACA GTT GOA GAT ACT CGC AGA TAC CGC AGC AGC AGT GGC
ala leu pro gin leu cys asp phe thr val ala asp thr arg arg tyr arg thr ser gly
                                           3311/1171
3481/1161
 ng gat gaa gaa caa gaa gga gge ggt gge att aac cag aat gtg get etg gec ata gca
ser asp glu glu glu glu gly ala gly ala ..e asm glm asm val ala leu ala ile ala
                                          3571 1.91
GGG AAT AAT ITC AAT ITG AAA ACA AGI GGA ATA GIG ITG ICT ICC ITG ICC IAI AAG IAB
gly asn asn phe asn lew lys thr ser gly ile "a" lew ser ser low pro tyr lys gla
3601/1201
                                          3.531 12.11
TAG AAC ATG CTG AAG GGG GAC ACT ACT CGG AAG CTG ATG ATG TGC TTG CTG ATG ATG
tyr asn met leu asn ala asp thr thr arg akn leu met ile cys phe leu trp ile met
3661/1221
                                          5-991 [12:31
AAA AAT GCT GAT CAG AGC CTC ATT AGG AAG TIG ATT GCT GAC CTG CCA TCA ACG CAG ETC
lys asn ala asp gln ser leu ile arg lys trp .le ala asp leu pro ser thr gln lei
                                          1 151 1151
3721.1241
AAC AGG ATT TTA GAT CTA CTT TTC ATC TGT CUG UTA TGT TTT GAG TAT AAG GGA AAA CAG
ash arg ile leu asp leu leu phe ile cys val Leu cys phe glu tyr lys gly lys gln
                                          3-11 1271
3781/1261
AGT TOT GAC AAA GTO AGT ACC CAA GTO CTG CAG AAG TOA AGG GAT GTO AAG GCO CGG CTG
ser ser asp lys val ser thr glm val leu q.m .ys ser arg asp val lys ala arg leu
                                          3371 1191
3841-1281
GAA GAG GOT TIG OUG GGI GGG GAA GGG GCC AGA GGG GAG ATG ATG CGC OGC OGG GCT CCA
qlu qlu ala leu leu arg gly glu gly ala arg qly glu met met arg arg ala pro
3901/1301
                                          3 (31 3511
GGG AAC GAC CGA TIT CCA GGC CIA AAT GAA AAT ITG AGA IGG AAG AAA GAG CAG ACA CAT
gly ash asp arg phe pro gly leu ash glu ath leu arg trp lys lys glu glh thr his
3961/1321
                                          3 +91/1331
TGG CGG CAA GCT AAT GAG AAG CTA GAT AAA ACA AAG GCC GAG TTA GAT CAA SAA GCC TTG
trp arg glm ala asn glu lys leu asp lys thr lys ala glu leu asp glm glu ala leu
4021/1341
                                          4 (51/1151
ATC AST GGC AAT CTG GCT ACA GAA GCA CAT TTA ATC ATC CTG GAT ATG CAG GAA AAC ATT
tie ser gly ash leu ala thr glu ala his leu ile ile leu asp met glh glu ash ile
                                          4111/1371
ATC CAG GCG AGC TCG GCT CTG GAC TGT AAA GAC AGC CTG CTG GGA GGT GTT CTG AGG GTG
tio win als ser ser als les sep bye lyc aup ser let let gly gly val let ard val
ACA ACC TTI CYCLOAC TCA ETC CAT CAA CCA CAA CAA CAG TAF TO CAA CCO CAA CCO
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                                          4. 51 141
ALCICIANI
Otto otto otto etto etto ene aaguleel eea halcicia etto etto etto eaa gae e<mark>tte eaa cae tet</mark>
lou arg ala lou ile ala lys phe gly asp leu leu phe glu glu glu val glu gln cys
434171421
                                          4391/1431
THE GAG STAITST CAS CAA GTS STG SAC CAS TSC AGO AGO AGO ATG GAT GTS AGO CGG AGO phe app lou sys his gin validen his his sys ser ser ser met aspival thriang ser
4 -01 1441
MAA GIN TOT GIN AND OTT TAN OTT NOT ATG AGG TTO AGT TIT GGA GCC AGG AGT AAT TIT
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4441/1481
                                         4471 (1491
TIT AAT BAA BAB CAC CIG ABA ABA IOC IIB AGG ACA AIT IIG GIO IAI ICA GAA GAG BAC
pho a mogil git his locating and sor led argothrolled led alactyr ser glu glu asp
                                          4531 1511
ACA GOO ATG CAS ATG ACT COT TIT COO ACC CAG GIFF GAG GAA CIT CIC TGT AAT CIG AAT
thr ala met gin met thr pro phe pro thr gin wal glu glu leu leu cys ash leu ash
                                          4591 (1531
AGC ATC TTA TAT GAC ACA GTG AAA ATG AGG GAA TTT DAG GAA GAT CCT GAG ATG CTT ATG
ser lie leu tyr asp thr val lys met arg glu phe gln glu asp pro glu net leu met
4621/.541
                                         4651 1351
GAT CITC ATG TAC AGA ATT GOC AAG AGT TAC CAG GCA FOT COT GAT CTG EGG CITG ACC TGG
asp leu met tyr arg ile ala lys ser tyr gin ila ser pro asp leu arg leu thr trp
                                         4711 1571
CTC TAG AAC ATG GCA GAG AAA UAD ACC AAG AAG AAG TBC TAC ACG GAG BCT GCC ATG TGC
lou gin ash met ala glu lys his thr lys lys lys bys tyr thr glu ala ala met bys
                                         4771 11591
4741/1581
CTG GTG CAC GCC GCT GCG TTA GTG GCT GAG TAT GTG AGC ATG GTG GAG GAC CAC AGC TAC
lou val his ala ala ala leu val ala glu tyr leu ser met leu glu asp his ser tyr
                                         4331 1511
4801/1601
CTG CCC GTG GGC AGT GTC AGC TTC CAG AAT ATT TCT TOC AAT GTG CTG GAG GAG TCT GTG
led pro val gly ser val ser phe gln ash i.e der ser ash val led gld gld ser val
                                         4891 153.
48617.621
GTC TCT GAG GAC ACC CTG TCA CCT GAC GAG GAT GGG GTG TGC GCA GGC CAG TAC TTC ACC
val ser glu asp thr leu ser pro asp glu asp gly val cys ala gly glm tyr phe thr
                                         4951 11551
4921/1641
GAG AGT GGC CTG GTA GGC CTC CTG GAG CAG GCC GCG GAG CTC TTC AGC ACG GGA GGC TTA
glu ser gly leu val gly leu leu glu gin ala ala glu leu phe ser thr gly gly leu
4981/1661
                                         5011 1671
TAT GAG ACA GTT AAT GAG GTC TAC AAG CTG GTC ATC CCC ATC CTA GAA GCG CAT CGA GAA
tyr glu thr val ash glu val tyr lys leu val ile pro ile leu glu ala his arg glu
5041/1681
                                         5071/1591
TTC CGG AAG CTG ACA CTC ACT CAC AGC AAG CTG CAG AGA GCC TTC GAC AGC ATC GTT AAC
phe and lys led thr led thr his ser lys led gln and ala phe asp ser ale val asn
5101/1701
                                         5131/171.
AAG GAT CAT AAG AGA ATG TTT GGA ACC TAC TTC CGA GTT GGT TTC TTT GGA TCC AAA TTT
lys asp his lys arg met phe gly thr tyr phe arg val gly phe phe gly ser lys phe
                                          5191/1731
5161/1721
GOG GAT TIG GAT GAA CAG GAG TIT GIC TAC AAA GAG COT GCA AIT ACC AAG CIT COT GAG
gly asp led asp glu gln glu phe wal tyr lys glu pro ala ile thr .ys .eu pro glu
52:21/1741
                                         5251/1751
AND TOA CAT AGA OTA GAG GOA TID TAT GOT CAA TGT TIT GGT GOA GAA GIT (TG GAA GIG
ale mem nim ara leu alu ala phe tym bly bly bym bym phe gly ala blu phe ta. blu val
Last 1777
ACT AAA BAR DIN A TOUR BER BAA AAA AAN AAA TI BAAD AA BAR AA BAR AA AA BAR IA TA AA AA BAR AA AA AA AA AA AA A
        any contribution will any live
                                     the lys led asp pro was lys alw tyl file dim
ATU ACT TIT GIG SAS COO TAC TIT SAT SAG TAT GAG ATS AAA SAC AGS GIC AGA TAC TIT
ile thr phe val glu pro tyr phe asp glu tyr glu met lys asp arg val thr tyr phe
                                         543171811
GAIS AAD AAT TIN AAN STE EGG AGG TIN ATS TAN AND ACC COS TIN AND CTG GAG GGG NGG
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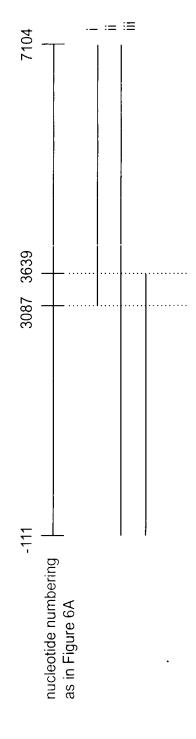
5611/1871 5581/1861 ATT SAN STT BOS ATT SAN SAN ATS AND AND AND ACCOUNTS CAR TTA GOA GIT GOO ATT AND ile qlu val alu ile qlu asp met lys lys lys thr leu gln feu ala val ala île asn 5841/1881 5671 [1891] CAG GAG CCG CCT GAT GCA AAG ATG CTT CAG ATG GTG CTG CAA GGC TCT GTG GGA GCT ACT gin glu pro pro asp ala lys met leu gin met val leu gin gly ser val gly ala thr 5701/1901 5731/1911 GTA AAT CAG GGA CCA CTG GAA GTA 300 CAA 315 TTT 1TG 30T GAA ATT CCT 30T 3AT CCA val ash gin bly pro led blu val ala gin val phe led ala glu ile pro ala asp pro 5761/1921 5791/1931 AAA CTC TAT CGA CAT CAC AAC AAG TTG AG3 TTA TGC TTT AAG GAA TTC ATC AT3 AGA TGT lys led tyr arg his his asn lys led arg led cys phe lys gld phe ile met arg cys 5821/1941 5851/1951 GGT GAA GCT GTA GAG AAA AAC AAG CGT CTO ATC ACG GCA GAD CAG AGG GAA FAT DAG DAG gly glu ala val glu lys asn lys arg leu ile thr ala asp gln arg glu tyr gln gln 5911/1971 5881/1961 GAA CTC AAA AAG AAC TAT AAC AAG CTA AAA GAG AAC DTD AGG CCA ATG ATC GAG DGG AAA glu leu lys lys ash tyr ash lys leu lyb glu ash leu alg pro met ile glu arg lys 5941/1981 5971/1991 ATT CCA GAA CTG TAC AAG CCA ATA TTC AGA BIT BAG AGI CAA AAG AGG GAC ICC TTC CAC ile pro glu leu tyr lys pro ile phe arg val glu ser glh lys arg asp ser phe his 6001/2001 6031/2011 AGA TOT AGT TTO AGG AAA TGT GAA ACC CAB ITG ICA DAB GGC AGC TAA arg ser ser phe arg lys dys glu thr gln leu ser gln gly ser OCH

A. Allelia variations: single nucleatide changes (polymorphism) between CLASP+5 cCNA  $^{\circ}$ 

Isoform	Nucleotide(s)	Consequence
1	1727	C to T change; mis-sense mutation changing codon from alanine to valine
2	1749	A to G change; silent mutation
3	2277	G to C change; silent mutation
4	2853	C to T change; silent mutation
5	3427	A to G change; mis-sense mutation changing coden from lysine to glutamic acid
6	3777	C to T change; silent mutation

B. Alternative splices Isoform Difference Nucleotide(s) Consequence 1806-1944 premature, in-frame stop codon exon deletion 1 leading to the production of a truncated, most likely soluble protein additional, in-frame 48 nucleotide between 2857 exon insertion and 2858 exon that contains a stop codon at the second codon, which would lead to a truncated, most likely soluble protein

These differences may be found separately or together in various combinations in the different human CLASP-5 isoforms



552 nt overlap

FIG. 6C

2nd exon (nuclectides 5809 to 5948)
GCTCATAAAATGGCTCCTTACGTTCTGTAGAACTCAAGCTCCTGCTCCAGCT
TCCAGGACCAGAAGATCGCCAGCATGTTCGATCTGACTTCCGAGTACCGCCA
GCAGCACCTCCTCACAGAACTGGCTGCCTGCCTGGATG
CCGAAGGGGAAGGGTATGTTCTGGCATCTAAAATGGAAGATGAAGC

4th expn (nuclectides 16948 to 17087)
TETTTEACTERACATCACAAACGATETTTCATTGCAGTTGCAGATACTCGCAGATACTCGCAGATACTCGCAGATACTCGCAGATACCAGGAACGAAGGAGCCGGTGCCATTAACCAGGAATATTCAATTTGAAAACAAGAAGAACAAGAACAAGAACAAGAACAAGAACAAGAACAAGAACAAGAACAAGAACAAGAACAAGAACAAGAACAAGAATACTGCTGCTTCCTTGCTATGTTGGTGCACATGTGTCTGGTTGATTTTTCAAT

5th exem (nuclectides 13281 to 19463)
TG 3C CCCATCCCCAATCTGCCTCCCTTCAGCCCTATAAGCASTACAACATG
CTGAA CGCGGACACTACTCGCAACCTCATGATCTGCTTCCTCTGGATCATGAA
AAATGCTGAT CAGAGCCTCATTA GGAAGTGGATTGCTGACCTGCCATCAACG
CAGCTCAACAGGATTTTAGATCTACTTTTCATCTGTGTGTTTTTGAGTAT
AAGGTAAGTCTGGAGCGGGCAACAACTTTATACCAGC

7th expn (nucleotides 2092% to 21015)
TCAAATTCCTATCAT SCATTTCTTAACTCCTASGGAACGACCGATTTCCAGGC
CTAAATSAAAATTTCAGATGGAAGAAGAAGACCAGACACTTGGCGGCAAGCT
AATGAGAAGCTAGATAAGTGAGTGAGTCACTTGGGCAACTTTCTGCTACTTTTACCT

Bth exem (nurlectides 05785 to 05861)
GCTTTAATTTGADCTUFTGTTGTTTTTTTAGAACAAAGGCCGAGTTAGATCAAG
AAGCCTTGATCAGTGGCAATCTGGCTACAGAAGCACATTAATCATCCTGGA
TATGCAGGAAAACATTATCCAGGTGAGGAAAACAACACDCAATCTGATTTG

Pth ekun (nurlettides 17242 to 17376) GGATTCAATGATGCTTCTTCCATTCCCCCAGGCGAGCTCGGCTCTGGACTG TAAAJADAGCTGCTGGGAGGTGTTCTGAGGGTGCTGGAATTCTCTGAAC TGTGATCAGAGTAAACCTGGGTGCTTGCTTTCCTTCCTCTTAATT

10th exem (nuclectides 28582 to 28734)
ASTGATGCCTAATGGCCCTTTATGTCTCCTAGTTTGGAGACTTACTCTTCS
AAGAGGASGTGGAACAGTGTTTCGACCTATGTCACCAAGTCCTGCACCACTG
CAGCAGCAGCAGCATGSATSTCACCCGGAGCCAAGCCTGTGCCACCCCTTACCTC
CFCATGAGGTTCAGTTTTGGAGCCACCAGTGTAAGAGTTCAAACCAGCTGAG
TGACCTGGAATCAG

11th exon (nuclectides 31046 to 31004)
TTACTTCATCTTTTTTTTTTTTTTTCACTGATGCAGAATTTTGCAAGAGTAAAGA
TSCAASTAACCATSTCCCTGGCATCTTTGGTGGGAAGAGCACCAGACTTTAA
TSAASAGCACCTGAGAAGATCCTTGAGGACAATTTTGGCCTATTCAGAAGAG
GACACASCCATGCAGATGACTCCTTTTCCCCACCCAGGTACACCGAAGCACAT
ACCTTGTCTCATGCATGAGT

12th emon (nucleptides 32755 to 32853)
A 31 FAA BATTATT A MICT PACACTIT LIGCAGGTGGAGGAATTTCTCTGT
AATTTGAATAGCATCTTATATGACACAGTGAAAATGAGGGAATTTCAGGAAG
ATCCTGAGATGTTTTGGGATCTCATGTACAGGGTAAGCTTTCCTGACACACTCA
AGGGACACCATTT

13th emon (mucleptides 33663 to 33855)
TOOTCAAAACTA :TTOTCACTIAATCTGTCTTCAGAATTGCCAAGAGTTACCA

14th exch (nucleotides 38125 to 38268)
DISTTOIDEAGGETATACTGTGGTCTCTTTCARATATTTCTTCCAATGTGCT
GGAGGAGTCTGTGGCTCTCAGGAGAGTGGCCTGAGGGGTGTG
CGCAGGCCAGTACTTCACCGAGAGTGGCCTGGTAGGCCTCCTGGAGCAGG
CCGGAGCTCTTCAGCACGGTCAGTGCCCAGAGGGCATCCCGGGGCCTGGC

15th exon (nucleotides 40166 to 40297)
AATTOTOTOTGATGCTCTTCCCTCTTTCCAAGGGGCTTATATGAGACAGT
TAATGAGGTCTACAGGTCGTCATGCCCGTCTGGAGAGGCGCATCGAGAATTC
CGGAAGGTGACAGTCACAGCAGCAAGGTGCAGAGAGCCTTCGACAGCATCG
TTAACAAGGTAGCCGGGGAGGTTGGGCTGGCAGGTCTTTTAC

16th exon (nucleatides 40755 to 40859)
TAAGGAGAGCTTTTTATATITTGTTCCTCAGGATCATAAGAGAATGTTTGGAA
COTACTTCCGAGTTGGTTTCTTTGGATCCAAATTTGGGGATTTGGATGAACAG
GAGTTTGTCTACAAAGAGCCTGCAATTACCAAGCTTCCTGAGATCTCACATAG
ACTAGAGGTAAGAAAAGTGATTCTGTGCGCCTGACCTGGGTACACTTTAC

17th exem (nucleotides 42307 to 41336)
AACCTTTATAAACTGTTGGTTGTTCTTACCTAG<u>CCATTTTATGGTCAATGTTTT</u>
BSTGCAGAATTTGTGGAAGTGATTAAAGACTCCACTCCTGTGGACAAAACCA
AGTTGGATCCTAACAAGGTATACAAAAATTTACAAAAACTAACCATCAAGC

19th exch (ruclectides 48664 to 48667)
ACAGTGA:TTCCCTATGTTTACGTCTCATGTTCAGTTTTGACACCGATTG
AAGTTGCCATTGAAGAAGAAGAAGACCCTGCAGTTAGCAGTTGCCAT
TAACCAGGAGCCGCCTGATGCAAAGAAGACCCTGCAGTTGCCAAGGCTCTGT
GGGAGCTACTGTAAATCAGGTAAGCAAAACCAGAGGTTGCCAGCTCCT

TITTE STAATTT CABTAGA J

22nd extr. (hubleotides 63040 to 63294) COT COCTOTOTTTTCTTAATTTCAGGGACTCCTTCCACAGATCTAGTTTCAGGA AATGTGAAACCCAGTTGTCACAGGGCAGCTAAGAAAAGCCATCTTCATTCGT G SA SA DI GIGGOCOTO DAAC DO I GGAGAAGGACITIGO I GGIACITAAAAAAT T GGAA GOTTTGGGATOOCA GGAACCATGGAATTATTCCCAAATGGACTCTGA DAGATTTTTGCCATACTGGGGGGTGGCGGGATGGAGGATGGGTACTCAGGC A I GA DI GCGTATTTATTAAAGI GI GITTITTCCACAATGTACCAAACAAGGCAI AASCASCTTCTCCTGCTGACTGGCCAATCACTGCCCATCTGAGAGATGATTTC TOTGGCCCATATTTGAATTTATTGGAGTAACTCAAATTGCCTGAGGAAAAAT GGAAAAATTATOOACCAGTCGATTCAAACTGAATTTCACTCTTTATAGGAAG GCAGGGCAAACTTGTAGGAGTACGAAACATTTTCAATAAATCTACAAAGGGA AGCOTTACTACAATTCCAAAAATCATCATGGTTGGAAATTTGGGAGGAGATT  $oxed{ATTTGTGAACTTGTTACCCTTTTTGGTAATTGGTGGACTAATTGCTGTATAGTTAT$ PTTTGTTTTATTATTACTGTTACATTAATTTAACATGCATTTATAGAAGAATAC ATTCAAA:GCACTGATGTAGGAGATACACGGTACTTGGAGCAGTCAGCCAAAA ATCA JAGATACTGCTTTCACTTAAATGGAAACAATTCTCCGATAATGCTTTGC TTTTTTTTTTTATGTCACTCTTGTGTACTATCTATTTTTCTCCTCTCTGGGACCAA GTTTCTTTTTATAAAGCAATAATATCTCTGTTTTCATTTCAGAACATTGTGCTG TOTGT CAGCATATGTATATCAGCTACAAAATATATTCAACTTTGACTTCTTTTG ACAAA SSACTTTAGGAAAAGGAGGAACAAAGACATTATTTGAGAATTAAATT ATATATTTTTAATATGACTGTGACCTTGACTGATAATAAAGATGTAATAAGAA TTGCAAGCTAAAAAAAAAAAAAAAAAAAA

STECTOTGTGSTTAGTCACTTAGTGACTTTAGATAAGTTTTTCCAATTTTATGGGTCTTAATTTCCTCAGTTTTAAAATA AGAAGGGGGGTTGAGAGATTTGAGGGCTGATCAACGAAAAGGATAGGACCATAAAAAGCAGTGA (ATACAAGCTTCATT GAGCAGOAC TEGGA NAGGETTACATAADA EGOAGOOCOTO NOCATAGA TAGACHAGAT AGACHAGACH NAGACHAGACHAGAGAGAGAGAGAGAGAGAGAGAGA ONCOME DOMAS SGAIS DAGGGGGAACTOOCAIS SIGAGGAGGAGTATAGGGCAGAAGOTTATAGATOT RIGGT BAGGCTGC FOO ATAGOA DASTA-BEGA TOTOTOEGETOAGAGAGOTOCAA/GGODE BIOGAGOTOTAT DE TOTOTO ATOTO AGAGAGA CA TTATOAT TAGGAAA DAGCTGTCCATCGAGATTTTAT BGGGTOTG DAAAGGA BGCAG BCACTAAAT BGAT BAAAATGT BDT TA TATAT SAGOTA DE PERTENDATO DA TENDESTE AS CENTE AS AS CONTRES CONTRACTOR DE LA TRANSPORTA DE LA CARTA DE LA GT SAA SAACTA ACCAACCBA GGG BCCAA DA CAGAGAA (ACATOT DE TOTOA DA TAACACO DE GGG BCCAA CACOTO GAAAAA BACA 19AC 1 11101 AAA BAAG DOOTGTO TACAGOOATACCAOCC 18AA DBCACGCAGT DICA ICTAAGGAAG TCCT/SATAAG SAAG JAGAATAATAAAAAA/SAATOCT/AAAGAAACATCA/SAAGTOO JCAAGCATOO JCAATOC JCATGCA DCC TRACCOCOTGCCCTGCAGCGGATCTTCTGTCCCABGACCCACCAGAATARAATGGCABAGGGACACTCCACTCCTTBC COPOCOPOTE CAGTATTTAGGAT FOCAG STITA SIDOFOTE TECAAAACTTTAAGTT SAGTGTATGAAAGA FA DOCTAGATC ACCACT SCAGACCCA SGCTT AGCTACTCACAT SCA SGCTATCTT CATTCCCGGACA SGGAAATAAG SCAA CCCAAGGTAGA TA FOR A SET POODES CAAAACTO ATGIT OF PATER PATE (TIMOT SITTECOTT SITTECECTIC GOMESAC PATOTITICIO ttaaa i poti pod pritoti tia stiao na fie oefilit. Tigit potoposti sa dicaaatgocaaaga 2 doctagaco AG BAGT BAAGAA SED IGCAT GOT SATTO UT SG SACACCATTAAT TAOTTOTGTGATTGGGGAGCATGAGC STITTGAGGBAT DCADDE DOTCA I DEGDAAAAAAA DEAGG DE GGATEAGAETEATO DACEGATEOTGEGGEGEGEGEGEGEGEGGCA FEGACATOC AC BBAT BETACTTA SIDACCATTA BIGGCAC DOA BIGGCTCAGAAGGIICACIGACCCCCATITOGIIBE IBAITITAATIICATIG AT JOCA SOTOTOTAGATACAGGA TGAACTTOATAC DITAAGCAA STTOTATTOTTACAAAG TOGTUTGA DI TTATOATTA TO CATAACCIPAT PAT STITTIC TO COATOTAAA SAT PITECTGGCAATGGATAACCTTAGTCTTATTTTTAATAGTCACTAA AAATAGAGAAATOGA TTTOOT GAATTAGTG TOT ET JACT TAGAA IGTGOGAGTAAGGAAAGAGGGATOO DT TGGGTA 59G GCATTGTGGGTCTTGACCTTTGGGAAGGAAGTTTTTFGGAATGCACCTCTTTTTCAAAACATCACTCAAATTGTT TT 19AAA 16TCTATT TTTTT 1 CTTTTGABATG SAG POT 1ACTCT STTGCCCABGCCAGAGTGCAGTGGCACAATTTT 3%C DO ACIGIDAAAC POOR DOTOACAG STIDOAMS DGA PILO POCITICOT DAGCCIDO DGA STAGOT SUGA ILACAG STGTGI SUC AC CACT DOCOGOTAA TITTI COA TITTIAG IA BAGAC AGGGTTO DAOCATGTTG BO DAGACTGGT UITGAA DICTGG DUI CAAGUGA POTGOCTGOCTGOCTCCCGAAGTGCTGGGATTACAGGGTGTGAGDCACCAGCCAGCCAGCCTGAAATGTCTGTGT TT BAA'T BATGTGTGAAGGGACGTATGAAABATAGG DA FAGTGGG BCGTTGTT TTAA STGCCAATGTGTT BI SGGTTCAAG TT COGATAGOOGGOT TGAOCOGA CAOOT BITTAATGA DIRACOTAAGTGAOAG BCAG BCACAAGT DAA GT TO TAATOOCITI CAA TG TGCT BSTGGC PCCAUTGGTCCAAAGTCABCCABBAGTGCACATCGAAAGGTTA IBGGAT ITGGTAAC ISTGGTAAC AGAAGT DATATIG F F F EGGTTTTAAAAATAATATA FAA EGGCATFTACTTATTTTAA STEGGAT STOTAACTAT SAATTAATT CT STAG SCAATA FGT OCCAC AACACATTGG OT POTTS FAAAATG SCTGAAAA PATSTG FTCATTTAAAT FA FATTGT FTA GT DTGTAATCCCAG CACTTTGGGAGGCCAA 55 DSG SAGCATCACCTGAGGCCA 9 SA ST POGAGA D MAGC F F 990CAA FAT GGTTAAACCCCATCTCTACTAAAAATACAAAAAATIAGCTGGGCATGTTGATGTGCGCAACTGATACCAAT XCCAGCIG GO DESAGRICA SA RACTOGOT EGAACOT ROBA SA ESA SA ESA OSTEGOA SE SAGOD BARA EGA DO ATORIO DO A DESCADE DA SA ESA CA BAGGAAGAG PO PG PATOTO POTOT OT OTO POTOTO POTOTOTO TO TATATATATATATA PATATATATATATATATATA AT A PAPA TA TA DIPINAAAAAAACAAACTA MICITI GAA ST GAGTGAAGAGGAGG CAT STICIPAT CA CANS SAT GA PGCTT CAT AM PROTETES DE SEGGE REGEGEGE NATAA NGAT SAAA TAN PEGAGGAGONDAAG SE SOAT CAGOGOOD DOTT DOTTECCOORTAT TTTGCCTTTAGAGGA SCTGC CTCTGAGT TTSGS FCTTTCAGTTG FTCAGCTT 3C DI SGGGGAA 3CAAGS SGTCTCTT DOA GA CAGTOA DO FITTI FOTGOT TTT CATTO OT FGO FT DATOGT FTATTTTTTAAAG GAAGATTTT FO CITAAAAACTOTT C GC TIMOTT FOR COTT TOT TOT COATTMOCOCOTO TOTO I CACTOMOGABACAACOT COAGACT TOT FOR SCASS FACTATOCAC TTTRETTARA DA STTTRAT RUCTT POTOTARRINAN PRODUCTA ONACETTURA A URBERGOTTTA STTARANCTAC RAS A BAR MOTODIA FININANA UTRICITA SU MUNCO OTA FINIST PECATACA ES STORIGA EN GRESCOARDE OCTTUD SIT DI FACACCATATA DIA NACINI TENANA DI PARA DI ANTO ANTO DI ANTO NACIA DI TENANA ANTO ANTO ANTO ANTO ANTO ACCACA 🖼 DECTABERT DE BATCATCE ACETOTO ACTOCTARBARA PARENCO ARACEO CARACIA DO TITACARATOCO COTANO CONTENTA CA TAR SURBADON CRATICAAT CAARATTI'N TA ENGINGO OT GTAAT OGA GAATTI'N NGA FOT RIF BOANTAT NOONT SUR TO DITATTRART GAITS SOTTAR COT SIA SA SAAMGMTATTTTTGTGTGTGTG SAAGGIGAAGI SGAGIFACCTTGTAA TAAAT STI DEATTOCICTITICA PTITI DI POCCA SCICTCA SCOAGCICA STAACCITICEAAC SCICATITECAT SAG GOTAGLET DECTGAGAATOOT OT STAGOLA TGAGGATTACOTOAATOTGAACOT ITTTT FTATGAATGC IGATACTG STC CARCATOT POTTOTO OTTOCATA POTTO POAGGTARTARAAGAATTATTAAPITAAAAGAAFTAT POAAGCTATTTOATT TAACTAGOTGAGTTTAATGATGTATTTO ATATAAA BUTAAGTOTTATTAATTTGACAAAAAATGAAAACAAT FGAAAGCAG TOCCTGATCAGGTTAAGTAAAGGCAAGAATCCAATAAGGCCTATGAAATTTAGAAACTCATAGAAAAGTCTCAAAATC

ABABCAT TAGGCAAAAT TIGTCATTATTAGGTTATATTTCTGTTSCATATTCTTGATACTAGTACAAAAGTGAAGGCTT STOTTA DTA ATTGAA AAA AAA ATOTTA GOO ATA TA TGOO ATA TGGOATGA TO DAGA TA TTA BOTACATBA BOAT BTACT FIGANCAG BOMANGATOT BAC FONCAGAGOA BOMATTOAAAATGTATAAACTT FITGOTOCA FOO FGOO DA BOAG STIMAG DAAAOL 991 E AE BE ACOOL E TOAB TOT'I COODTTCOADOTT TOT TBLA'I LOBA'I TE BAATEABB'. DE CITTEAAAA'! DDI DO OTCE TERE AAARANA AAAE TAATTOTCE TADATRITCADAE AAATOTRITAE DAAE TADO AAAAAA (COBEGADO) AGGA PACA AATA DA BGA DAGGAA TTACTGA BGACCGGTAAATO PAATACTT DOCT DCCTAC TAC DATACTT FOR A STAPA BT PODA BG COAG DAAAAGT DIIGACAA FET ECITAAGC DAAAT FIAGAA ET ETA EDT EAG EDDG EED TE TE ET ECTOA DATTT ETAAF C TATAC 1 CAAAAE TAACACC AS 1 OOG ACOMTE AS EAG EAGATACT TOAGAT AA GAGAGAG AG AG AGACA CAACA CAACACAACA CAACACA CTADIRAAAATADAAAAADDACATDABGTGIBGIRGIGTGADTBIRAATDDCABDTADIRBBBADGCTBABBDATBABAADT GCT CBAAC COGG BA GAG G GA GET CCIA GE GAGCET GAGACCAT GCCA DE GCAA EC CA GCCET G GGTAA CAGA ET GA CACE CE AGGAA I TB DOT BIT CODA BODODA BBADIBBG IGA SGTTOITA ITT DI DT BIDCAA DI FILIA IGOLAG BADIFILIA FOIT CAGO FITT BAT FICAGO DEGAAA BOGAGO BECATTOAT FIT DAA DA BADDOG SEGT BO FITAT FITDAT DITT DDD BO DI IAICECIMO CERTO ACADATEACIDAEE AE SEE BETOE BEDOAAAEACET BEE EACIDACACACTO ACA CONTRALA ACA CA CA CA CA CACA TOA TIPOCAGET OT THE BOOK OF CAMAARISS OF COTTACCT TO FOR A SAACIDAA SOIPC OF STECKAS CODICAS AS ACCA GAA BAID BIODAGOA TISTITID BAITOID NAO ET DIOBAGTA DOGO DA BIDA SIDA DE DOT DAIDDE BID DE DIODITIDE DA DA BAADT BB CIG DIGCODDIGGAIT 500 GAA 5 5 5 GAAG 3G FAIT STITT DIGG DAITTAAAA FIS GAAGAIT GAA 5 DDAAAAAANDAGAIT STITDI T PAA PAAAAT TIOCAD TID AG DID DITOACAD TIGG TAAAAAA DA URA DIG PAGTII GADOAG TIDODGAG GAG FAGAAAACA D CTGTCT I BA BAATA I BB IA DO DATAAG DA DAARGCA DAAGAAA BG DOTTT DT BT BTAGAAA BBCA DOA 96 BAT BB BTAA GAACTACAAAATGA (TTIICTTE 91 CAACIAIITEA STEGAATTTA DOA TATE ATATA 5CA 5CA 10 CIITICTIA AGA 5CA 6CA 10 COAA 9CA TITUANTE AN TANGARAN DE CARANTE E AT AS DA PARTE AND AND AND AND CARANTER AND AND CARANTER AND TANGE AND AND CARANTER AND AND CARANTER AND AND CARANTER AND AND CARANTER CA GTT CAAAGCTGATGAAGGAAATAATGGCT SCIGAGAAGGCAGCTGT CCCAT SCICLAGATTAGGTTTCTTGCAGACAGACAGTS GGCAGTATOTA GOCTAGAAGT CAA CAGACAGAGAGAGAGACCO COTT OTTTO OT TOT OTGCCTATGCTOCGCTATG CAT BGAGTCAGAAACCCACAG DE PATE IGAT DGGAC IGAAAAAAGACAA I B DOT II DTAAAA DA ITATI DATT DEBT PEAA D AAT TATTGAAT 900TTO JATG 9GA JAGACAGAGTTAGGTGTTAGA 9TAGA E AS 3ATATAT DAGTG DAGAAAGAGA GA AAA DTOGOTGO TOCTOAAGAG TO TAOCAT DOAGGGADTOAGATTOAAAGA TGATTAGGAT DGOAAAG TAGT TGAGA TTDA ACA DITIOTIGGI GITTINAGA INA 3G DAMA DA SANITIGOAGGAAOTITO DOCA DI ATE DIDATAA DAGAGAA DGAAATOTAAAGO CAT BETETTEO (AETECTETE DEA BRACCEACTOTOTATACHARACEAT DEC DITECRACIA) BERACCITETTOCHATERE AAA TIGAA TITTITTO TOAAGITTOT DILAAAGIGO FITACAATITTAGIGAAGIGAAGA SAAGITTOO TIGAAFIAAAAATA DAG TAT STOTGOGTOTOOTGGGGAG SA FAGTIGTIGGIGGAATOTOATGOTTTTAG OTOT DAATTOT 30 OTOOTTOOA SATAAA OTG CAA TTATCTCAGTAGAA TGTT DTACCCTACAACTAAATTAAATTTOCACAGCAACAAAAA GTGCACGGAACACTTAT BCT AATAAGTAAGATACTGAGAAGAAAGTTTGAACACAAAGAAAATTGOOTTCATGCACAAACATGTACATACATTTTCTTAG TTGTCCTTTAATAGCAGTACTTTAAGTGATTTCTAGAAACATCTTTAGTATTTACAATAGIGTAGTTTCTATTTCTATT TICATICTAGCIGGAAACAGCCAIGACATTCIGTICTGGATICCTIGTAAAATTGIIGCIGIITAAAITAACAACAAG GLA-AGTATTCAGAGATAATCATGTAATTATGTTTAATCAGGTAGATACATTOTTCAAAGACACACAGAGACACACACACACCAC TTGGCAACACAGTAATCHUTGATTCCTGGGTTHTCAGTTACTCCTGGAAAGTCATTAGATACACTGTWACACTCCAT ATGTAAGGTAAAACTU AGAAAAATGTCATJ TTCAAGAATACTTCCTATTGATGAGCA CTTCTTTTTCTCTTT AAN BOOTA YOUARNIA NI BYTON AFTTIN DA UNGGITTIOUNTITGRATOURTGANDAY DUG FITATATOOLMARGTGITUTA THIMTH STIAMANN AND STRING THAA SCANTIAGAAAT PRICTATIG TOT OT GOG TAAGOCAGCAAT GCAMTGC TANTT BAAABBARAA CHATTO COROA CA BA MA MAABAAGAAGAAAAAGTTTI JAAAT%CAATTAGAATTATCTT ACTUTACCCACAGTCCAGAGTCUCAGTCATUTAAAATTTTGGTTAATAUTTTCTATATAACGTTGAATTUTGATGTAGC CTTATTTTGTTTGAAAGAAAAAATGTATATATATGTATATATTTTTAAATCTGGATTCTTTTTTATTATTATCATAC TTTAAGTTCTAGGGTACA"GTATACAACATGCAGGTTTGTTACATATGTATATATGCGCCATGTTGGTGTGCTGCACCCA TTANCTCGT/ATTTACATTAGGTATATCTCCTAATGCTGTCCCTCCCCACTCCCC/ACCCCATGACAGTCCCCGGTGTG THAT BITTANIA DITATEV. FIRAGAASATS SEETETTEETTTETTTETETETETETEATAATAETTTEETGAAAATGACGGTTTII A POLIT MI PONTSTU POTA SANAGGAPAT JAAGTPATPOTTTTTTATGGGTGATAGTATTGGATGGTGATATTGTGGGA PARTET TOTANTO DANTOTAM MATERIATO NA PROTECHA POR CONTRA POR PROTECHA PARA POR CONTRA PO

CATTATCCTCTCTCACATTACAGGCCCCCCCCAAGTAACCACTATTCTGACTCTTATTATTAGAAATTAATACTGCCTGTT GTTG (ATTTCATAGT CTTTTGCTGAATGTTG PBAC IGTGACACGTTTAGTGTGTGAGATGTTGTGAGAGTATTCAT TTCAACT FTATC PCATATTCCTTT BICTACTATAA ITTCTCTCTTCTAAATTGACAT ITGCGCTGCTT FCTAT I IGTSGG TATE (GOTATE) INAAAACAGOTOOOGTGAACA IS CONTSCATGOTTTTGGGTG JAOG PYAGAACTCATTTC PPTGGG CTATA AATA DAC DOTA TTTTTTAT FTTAATATA DT BOTOTTGAATAGTTTAATAAA FAT BTG FACATGBTCTTAACAAAA CAACAAAT FOAGCAA FOTT FAGO FGAGOTGAO DAAGAAAAAAG GAA GAA GACTDAA FTA DTAAAATCATAATT GAAAGA TTC AN DACAATC ATAT DACAAGA BA DOTTA DA SAAATAAAAA BGATTATAAAAGAA FAO BAT BAADAATTGAAA BC DATD AAAT II BATAA DO TAGA TTAAA TG GA FAAATTOO FTAAAA BGTACAAA B FA DTAAAA TTGA DE DOAAGAA BATATAGAAAA TOC AMATAGADO TADA BAAGINAAAAGAITIGABINTAGTAATOAAA DTYDD BACAINADD DTA DIATSTA DO DA DA DAAA TAMANA TTA SOCIEGO SOCIA STORESTA DA CONTANA CON CONTANA CONTANA SOCIA S TCAN ASTUDARGA COAGCOTSG CDAAGSTGAT BAAACC DCGTCT DTAD FAAAAATA DAAAAA TTAGO FBG ST ST SSTCC COCOMADOTO FAATOO DATO FACITO DEGGAGGO DEA EGGAGAA AAA AA TOA FII FGAGA DIEGAA EEDAGAGE FITEGA ETEGAGI TTAAAATTTAAAACTT CCTACAATAAAAGCTCAAACCTGGGGGGCCTTTACTGATGAATCCTACCAAATATTTTTAAAAGA ATTAN CTOTAAT TTTTFACCAAC FECA STOT POT OTTOCAACGAATG SAA SAEG FEGAATA OTTOCCOACTE FFECTAT GAAGH FAGCAIT AC JO FATAITAAA IGA BAGAAAGACATGA FGA BAAAA I FACA BU IDA BITA FOTGAT BAA FATA BA FGT MACAH DOTCAACAAACACTA SIBAA DIGAA TOUAADAGA TATAAAAA SBATTATA DADDAT BBOTAA BTA BBATTIATO TCAGOAATGCAAGATAGGCTGCATAGCTGAAAATCAATTGTTGTACCATAATAAAATAAAAGAGACAAAACCCATACAA TCATOTTAGTAGAT SCAAAGAAAAG CATTTAATAAAATCTAATAAO SCTT DCTGATAAAAACACTCAA CAAA CCCTTTAG GARATAGAGAGOT POOTOA A ET PGAOTTAAGGGOOTOTAT GARAAATE DA DAGETTAAT FIGACACTTATTA FI SAAAAA CASTI-CTTTATCCCTAAGATTAG-GAACAAGACAAAAATGT CTACCCTT DCCACTTCTATT CAACATATTAG GA STTCTAT CTAGC GCAKTTAGGCAAAAAAAATAAAACAAAGACATCTA GGCCA GGC ST GGTGGCT DA DGCCTGTAATCCCCA GCACTTT GGCA GCCAAAGTGGACAGA TCGCTTTGAGCCCAGGAGACTGAGAACA DD TGAGCAACATGGCAAAAACGCCATDTCTAC AAGAAATAGAAAAATTAGOT 3 BGCATTG BTGGCTTGTGTT FGTA 3 FCCCA BCTACT C 36 BAGGGTTGAGGGCTG 3A BAATTG CTTGATCCCAGAAAGCGGAGGTTGTAGTGAGCTGAGATCACGCTADTGCADTCCCACCCTGGGGCACACACAAAAAAAADCCTG TCATPHOTOGODATANTOTTOTTTATAGAAAACEATAAGGAATOCA JAAAAAACTOCATATA JAACTAATAAATGAATTCAG CAGTO TTGCATGGTATAAGA TOAACATA DAAGAATOAATTOTGT DIDTA TAOAOTTA DGATGAGCAATOTGAAAATGAAA TTAK: AMARCAATTTCATATAAAATAGCATCACAAAGAAAAATATTTAG JAATAAATGTAA: AAAAGAAACA CAAGAGT TITTTTTTTGGCAGAAATTAGCAAACTGATCCTAAAATTCGTGTGBAAATTCAAGGGACCDAGTATAGCCAAAACAACCT TGANANACAAGAACAANATTGGAGGACTOACACTTCCCAATTTCAAAACTTACTACAAAG JAAAAGTAGTCAA GACTATG TTGA", TTTTGACAAGAGTGCCAAAACAATTCAATGGGGGAAAATAGAATTTCAATAAATGGTGTTGGGACAA DTGGGTA TOCAC ACTCAAAAGAATGAAGTTGGACCCTATATTACACTGTATA DAAAAACTAAC TOAAATAGATCAAAGACCTAAATG TAAGAGCTAAAACTATAAAATTGTTACATAAAATTATAGAGGTAATCATCATAGACTTAGAAAAAGGCAGTGGTTTCTTAG ATATUNGACACTOGAANGTATGAGTAACAAGAAAAAATAGATAACTGGACTTCAQTAAAATTAAAACTTTTGTGATTTA TAGGACACCATCAAAAAAATGAAAAGGCAACACAAAATGGGAGAAAATATTTGCAAATCAAAACCTAATAEGGGACT TGTAC-TO-AATATATATTTTAAAAT ITTACAACT CAGTAATAAAAAGACAAATAACTCAGTTTTTTAAAAGGCAAAAG THA WINTA-AMATTT INCHARAGRAMATAGA NIMATAAMAIMATHNAGATSTTCASCATMATTRAGICGTCASGIJAGATC a yaan maantiyyaystiintiga samamtehtyyyy soraatotanaay tot oga ogganyittiisanaanaagetgi i gattom TOTALAANTTAAANAGAUNUTGUJOUTUGUUNGOTOAOGOTATAATOTOAGOAOTTTGGGAGOTGAGGTGAGGTGAGGTGAGGTGAGGTGAGGTGAGGT ACCOACTA CONTRACA ALL TOTAL ATUTAL DAGA ACTE EN L'ELT L'E ALL ACATATA ACCATATA ACCATATA ACCATATA ACCATATA ACCA GTGTGJTGJCAGGTGC TGTAGTCCCCCCTACTTGGGAGGCTGAGTCAGAAGAATTGCTCGAACCCAGGAGGTGGAGGTT ACCATACAAGCCAGCAAATGTACTCTGAGGTATGTACCCAAGAAAAGTAAAAACTTAAAACTTGTATACACATACTCATAG CARCETTGETAAGTCACAATAGCTCAAAAGCAGAAACAATCCAAATGTTTATCAGTTGATGAATGGATAAAATTCACCAA CAPABAT SOLAT TA SABABAS SABESTA SOLAT SOLATA DA ATA DA ABABABA SA TABABA SA TA PATRA DA PARA SA SA SA SA SA S A PAINT TAIR RECONSAA TAMAR ROADE OO PETTI OO ROATTI TOO TAGOTTO TATOOTATATTO OO TOO TOO CAGOOTTA 

AAAGCTGTCAGTGCAATTCACAGGCTGCTAAGTTCTCAGGACCTGGGCGGGTGTGTAAACGAGAGGTGAAAGGTAA AAT BEGREUR TITTAB TAGETTAGTTEGEATEATTTTEGATECTTEGEACAGCTETEGACTTTACAGGTAATEGEC TERETT PROPATE TEGOSGGC COCTUCUAAATSCCCATCC SAATGAGATCT ETGT A TEGOTROGAGRO AAAAAAAGT JACATA SI COCATAT GTGTT PITTGTTTA GAAATTATTTACT PG ITTGTTCAT PGAT FGATTTA FTCAT FC ATTGATOTG STAGT NT SGAATGAA STTTA PAAACOATA SACCACAAAGGAT SAAATAA TAACAA BAT FACTGO STTFG SA GATC STGCT DTAACA DUTTGAAATAAAGG PSTTCCTT DOTTTTC PTTTAT BAATATG TAAG DAAAAAAGCGG PCTDARA TGAACCCAA CTAATT BI TOCATGCAAAAAAAAAAAATCA FB BCATAT BT CAATAT TA BAAAATT CTAT CATA BCA BA BAAAAT ATTOCOPT BODAC TAAGTGACTAATTIT BAGGTAAI FAIGTOTA BAITAG DACAA BAI BAACAACAA SAI BAACAACAA SAI BI TOODO AATTOCA AGGGSTTT 3T 3AAA DI CCAGAATCTATTTACAAATTA DATT 3TG 3A FFAA 3 3AA FG FAGA 3 3 3AAAAAAA FC DT DCAA ATAGAAGAA CTIICTTA I GTTGACCTGAGAAAGGCAGT CCATT GGCCTA CCCTCTCCA CAG CGICACGTGIG TGICATGCACGC TGTGGGGGGGTGGA GAGAGAGAGAGAGAGAATTGGTA FOOGA FOAGA SIAG TEOTI FGOTTTTO OTGGAGGGAAGGGAAG TTTTGGAAATGTOGAFSOTGCTCTTGGCAGCTGAASSSFGCFGGGATCTBSSCAATGCFTSCCFGAGCAGCCTTT ATACTOAST DATECTELAAATOTEGGAAC DATCOAGGITT FOCUACD FOOT DOAAAT BBAAA BLB FDA FBFBT BAD CARA TTGTTTALAWIAUTATTACGGTGACAAGTATTTAGTT DATGAAAA 13 3GGC DAAACG DOTATA BIDDII IAA II DAIACAA CAGTAACTCAGAAGA SAAAGGTTGAGACA S SGGTTAG S S FTTS FAGA STTC DE TUGG S SC DA SA S F S CAAG SAAA FGA LA AN DOCTE I I ACADO DE DE ACADATO TO DO ACOME BABILA DO ACOMADA ACADADO DO ACADA DA ACADA DO ACADA DO ACADA CO ATTGAAAAT 3GA STIDSI FTTTAACATTTTA CAGACATAA FBCAGAGCATGGCA FGTGACTT 3TA SOCCA FFF FBAGAAT 1C TTGATGGCAAGTIT DIAAAAAGTTCCATTICAAGAGCITTGCTTTCTCTTTCDCCAAGDCAGAACCATTICAGCACATTAIC CGAAGTTTT CTTST CAA FTAGAATATCCS TATCAGF SA CYCG SAAC CAGAACTTTTCAA CA CTT 53 PC PC CAA 50CT CT TAAACCTCAAAGACT FC FTT GTATATGCGT TGAACTT TATGAT DAT DATGTAG DIGATGA BA BAAAAAAACA BT BAAAAG TATTTTATT 3TTATA 3G ITACACAGTACA IOTATTAAATATGGAAT STTTAGGT GGTAAACTOATAA 3AATA SAGTC IT T CAALAAGA TIGCAT I DISAAT TOAGATTOCA BOOCCATT FATTAATA TAAG PISA DUTTTISAAAG BIDTIDAA DUFF FUDDIGTHÜ C TTCCTTTC TTC TC TG TAAAAC TATAAAAA TG F BATAACGA T BYCYACCT FYTAGGT TYACGA TAAA BB F BAAACTA BAGAAC E TOTATAAAAGOATER IGOAGAGGACATGERTGTATO ER POOC SATERTTETE STABOTATAACEOTA EGGAATIAA EG GGAAATAAGAAT ST STOTOTATGTTAGTT STGATAAT ST FATOAGST STT SOA BAATTTO BAT ST SOF STTATTTAA OO ATTIGITIAAANIC DOAATGGOOTTAATAA TTATITOTAAAAA FIGS SITITOTGAAAANIC SOOTTSTISS OO AGACADIIGTAA TICCCASCAC INTEGGIAGGCCAAGGTGGACA GATCACTINGAGGCAGGGGT DAAGACCAG DU IGGICAA CANGGICGAA AC GAGGATGGAGGGGAG BAGATTGCAGTGAG DEGAGATGGCGCCACTGCACTCCA ECCTGGACGACTAE E FET BAGACTTTG 10 TAAAAATAAATAAATAAATAAATAAATAAGAACTGGGTTTTGTT PTCACAACTTTAGTAGAAGAAATG PTATTTA CACT CA AATTTTTCTAAATAATTAATTIGAAGGOOGAGAT 3 GOTGTAATIGTOAACAGS 3 FOTAGAAAAACATGAATTTT FFA GGAAAACAT GA GTGAATCAATCASTT STGAATGTTTTACCACACTTTTCCCAGAACTSCTTGAAATATTAATA STTTTT SATTGTATAC 19 GTAGCATTCTTAAAAACCAGACTTTTAAACBGTTTATCGTTTTTTTGCTTGCATACATCTAGACCTA FOTATAAATAT 96 CATAATAGCTTATTA FTOTATATAAAGGTA STTGOTTAATTOTGTAATTGTAGG PSTOTFOTATTT 9GT PATTA FFTAAAA TAAT GCCAACTATTAGAATAGAGAATGAA STTTAAAAAATTATGTTACAGGAAACAATTATG 3AA 9GT FTGAAAACTT ST TGTTCACACAATTTGAAAAATTAATTTCTAGCCTAATCTTGTGCTAGACATTGTCTCTTAGCCTGCTGTGTTTTCCTATA GGTGATAGCAGATACATAATGCTAAACAT CAGGTTTGAAATTACTGTGCTGACTTTAGTGACTGA JAAGTATCAGTCTCT TATT GGGTANGGGACAT GGGGAAATGT CANGTTTGACTTGACATCACAAAGGANGTTTTCATTN NAGTNGCAGATACTOR AGATA THE ACHAS IS BUT USBATGAAGAA AA AAAGAAGAGGGT ACTAAH CAGAATGT GO TECTEGGGA CAGGAC HAATAATTI MAATETBAAAANAAGEGGAATAGTGTGTGTGTGTGTGGTTAGGTATGT AGATGEGTGTGTGTGTTGATTTT AND THAT WE STORE STOTE SECTION STOTES STOTES TO STOTE STOTES WAS A MARKET OF AN INTERIOR CACABASE. ANT BARIT SOOMANTOTA STITA DIGGARG STOON OFFICE BUFFICET CAUGOOT CAGO UT CUTGATTAGOT GOA Ð TRÍ ASSRÆÐT Ð Ð ÐANGATTARÐET UÐ TRAAKSSST SSR ST SSA SKAT BYTAÐAS T SSA AS SUT UAARST DITH. T COCAGCCCCTCTCTGTCATCTCTGATGGGAGAACTCAGCTTAGAGCAGGCATTGATTATTTCCGGCCATTTTGCTGGAA AGAAT DATTHIGAGGOTGGOAGCIGAGGIG DACAGAAGT CAGAAAGGGIICIGGCAACAGGAAGAGAIGIGCAGAIAAA TTDAGGCAGCCCAGTGSTGCTGAGTTCAAGTTCAAGAAACCGGAAAAGAGGAAAACTTGGGAAATCTGAAATCCTTGCA 

AGAAATATTGTGTGACCTCUTCCACCTTTCTAATATCCGTCTTACCAAAGTTAGCTGCTGGAGGTGGTATATGCCTTTTA CATTATITGCCTCTAAGGGAAAAAUTCAAAAGCCCAAAGTTCACCTBTTAGAACATAGTCCTTGTGAGGTGTATCTCAA AARAS OTADOTTI ATTATOTO DAARARI TAARA TOAARA TOAARA TOAARA DAARA DAARA DAARTA TOTO TOTATO CATTA AR ITAA PATITUUUTPUN ATA PERANAARITUU POATIC PAATITUAD PAGTACATICCAO PGGATATTAGOTA IGO PGCAT GAACCAAGGGTGCAGCCTCATTUTTGTIGTTTTGTGTIGTGTIGAGAGAGAGAGAGAGAGAGTGCGCCCAGGACTTTAAAATGA ATA TTTTTGGGGAAAATATTAARSGAAATAGCCTGAA CCCCAGCCCAGCCCAGGGAAACATAAATTATGGTTAAAG TTOUAIT FACAGAGACTOCACARACAT EGAT ITGATTAATT FIGTGA ECNUT FOATGAC DO TTATGT F**AT**AC FTTECA DT ATOTAA "NAAGAAGOTNAAFOTI'SAACAGOAAGOTTATI'DA E KODODUAURODASTTTOUTITOTOOC "TGTAAGTOTAAC COTOTO DE COAGOA OGAAGA DAARTA DI FOGAGA FOITA POAGOAT HAAA GOOTOT I I GIATOA DIGGESATI SOA GO TAGET CARATA DEGEC CONGCECAGO FOR ELEGINGS FAGE ROTACTONAA GAACACA GET FECCOLEGED FARG GAAGA CAGGGC TACT 3 SCAA1 AGA FOT CCAGC CTAG CAGTGA FGTA CAGTCA FG FTA F FTTAA 3A 3AACACT FT SAA F TT FFC FG COCTATAAGCA STA CAACATGCI GAAC 90 SGACA ITA CIFO SCAACO FOA POA FOI GOTIF DO FOI SGA FOA FBAAAAATGC TGATCA BAGCO FCA CEAGGAAG EGGAL FGETSACCIES COA FCAACGOAG ULGAACAGGALITEEA DA FCEACCE TECATOC GTGTGT TA TGT TTT BAG TA TAA BGTAA BT OT 6GA PT BG DA DAACTT TA TAC CAG DT DT TA TO TIL TOAA FT 9 JAAT POT 6T OTTOTTA ITOA POO IO DI POTT NIGGGO DA RGBABBOA FOA TIAATTITI MICATTITI MAATTIAAAT JOA PAACIDATA TGTAGG PATAGATA TGATCATTI CACA 3G SAAAS SAT DTCTG (CTM CDG TA SAGAGAA) DCCAITTI TOTT SA (AGAGTT TTGGCCCA TAGBA TBCTCCAGA ECAGCAT ETCAGTGAA ECACATGT DAAAC FFA SCTG BDA FDA ETET BBAGTETACTGT TTTGGTAA DTO TO DOATCAAC 3GAGA TO FOACCAAAG BA DATGTO DTO "FLACO FOTG TOT FSI DOAG 3 GAAAACA SAGT TOTGACAAAGT 2A STADOCAAG LOCTGCA SAAGT LAAG SGAD (TOAA SGUCC SGUT SGAAGA SGUT IT SCOOK TOSGGA AGESECCA SAS ES EASATEATS OSCOCOCESSECTO CAGGTS TOTTE SACTO SOCOTTOCOTE O TOTOT OTOTA FICAL CAGTTT TITCACT SITTIGITG SGEGOGAAT STOCTCCCAACATGA FTAGACACCATTACT FTCTTGA GATA FTTACGGGTAGTGTCAGA GACAGO BATT CTGGGAGTCTG IGTGTGA CATTT BTGT TAGOL CTGT BCUTGTGAGGGAAA BDGCTGT LTACAATIGTA GGAACCCCCAAAAACAGCACCAAATGACATCTCTTAACCTAAAACTCGTCGACGGCTAAAAAGGCCACCCTCTAAGAATGCCAGC CATGGAT BACGTGGAACHTGTTTCCCTCAAGGCTDAGGCCTTLCTATGTHACCTTTGGCTAGFCTAGGCGGGGGAGAGCATGGCC AAGAAA DI SAA DAGITTUTGOOO DOAACAT DATCT PO FOGA TOATOA GO GOOGATTATAGAA I GAAA DAGATTOOO GAAAA TGGCTT DA BAGTG POCCAGTCA I TCAAGGATTCCACCACAGGAGGAA ZGATCTCAAAAA BG TPGAG JT I BAATAGAATGA AATCCCCASGTACCCTCAGTCTTATTCACCATGCTCAAAGTAAAACASA/TGACAGCTTATTSTATTGSAAGGGACACAG TGGCAG 3 SAACTTGGAGGGAGC I CATAGTTTTCA STGGTGGTC AGGCAC CCTCATTTGACAC CCCATPCTT CACACAC TAATTO A 3 FAA 300 DOCAGAAT I TOACAGGAATO CTO TOOTOGA FAAATOTO TOTOGA SAC FOAGAAAGGCAAAGGT TOTTOT IN FAIT TO INSTIGITATICAATICAAAGAGGGGGGGGGGGACACTT GGACATAGGTGTGGGGACTT FGFGTCCCTAGCAAGAAG CTGCAT 3 BACTECTAATTAGCCC BAGAAATGGTGCIGAGGCTTC TCAGTT BAGCTTG FTATGAACTTET 3 STTATCTTGGA GGGTTT CAITGC FAA FCAAAT TO ETATCATGCATT FCTTAACIF, CTAGGGAACGACC SATTT CCAGGCCTAAATJAAAAATT TGAGAT 3 3AAGAAAGAGCACACACTTGGGGGCAAGCTAATGAGAAAGCTAGATAAGTGAGT 2ACTCGG 2AACTTTCTGCT ACTTTA DOTAAASTOCAAAAC LATTITTOCCAGOOTSOTIGTATTACT JAAACAACTGCATOOTTOCAAGGGCTAGAAA ATGAAA DATCATTATCUUTGTAAATACAATTOATEOAGGGAOLOAGGATAATOAAAGGTATAGGGAAFTTGTGGTTTOCAG CTOTTANANATTTOTONONT TGATAAGCATGTAAAGAAAACTAATATTT (TTTAGCAACCTCAGATGGCTTAATAAAAGC AGCTGA PTTTSCAGGGGAGGGTAGCAGGGAAATAGAGAAAGCAGGACACG/YTGCCTAGGACCGTATACTTTCAAATCGATA TTTCCTTTCTGGAAATA" GTACAAGATATACATTCAGATATA" TTATGTCAGTGCTACTTAAAGTTGTTTTTTAAAATTG AAAACAPTOTAAAPGOTOCAGAATAGAAAAATATATTTAAAACTTGGATUGOCATCAAAATGTTUTAAAATCAUCTAAAA GA GATIGO OBARAT DITTATI IA GATAATISTITAMAN TAACAAAGO CA 9GIFTUGA WOTTIGGTTTTICU A STAFFGT OF GECUC A 19 1 M. MARTIN MARK MITT FORAS BITTEROS ROSTIGAR CACATIS ROSTIAS TACTTOSA FARTAROCTOS CAA T A DESCRIPANA DE PORTE DE CALCAMAMA DA SA ALAMAMA DE COMPOSA DE COMPOSA DE COMPOSA DE CALCAMA DE CALCAMA SE ALA A PENT BARRAD MATA POTO NTO AAN DO DEPARE CARRESTO DO AUTUMS DO AASATOSTIGOCATO BOACTO. ARGO US TOTATA AND ATOTATA DATOTOTA ANA ANA ANA ANA ANA ANA ANA DATOTOTA ANA DATOTOTA ANA DATOTA AND ANG EST TITTAAAJGUTAGAAGAAATTTAQCAAAATATTAATTGCGGTTTTCTTTGGGTGCTGGGAATATCGGTAATTGATGTTT PITTTATACTTTUCTATGTTTCCTACAGUAGATGTGTATLATATATATATGTTACCAGAAAAAAATTATAAAGA AATBAAAGAATAAAAAAACTTTTGGATGAAAACCTATGGTATAGATGAATAGATATATTGACGTGTATTGCTATACACAC GCAACANTTTAGACATATGAAAGCTAMAAGTATATATGTTTGACTAGATAGCACATGTTTCCGATACCGTTTAGCCACAG REAGANTAATOACOCCA BRETTTECT EA KAAAAT STOUTE EE ALACAACACCCCTCACACACACAGTESAAAAGTAG ATACCCAC PROTEKT SAARTAN IN ACCAMBET PERKUT PER PRACTICACIA SACRECACTO TOTAT FTAAATAAAT S THE STEAT AT PTOTATE STORMED AND SECTION STORMS OF SECRETARISTS AND SECTION SECTION OF SECTION OF SECTION OF S

TGCAGGAGUAACACATATTGGTCCTTACCACGCATGGCCTACCGGTTTGCTCTAGGTTAGTTCTCAGCCCTGCGCTACC TO DITUTMATCA DI DI POGA PTATTITO BO POTO TITI DITITIA BAGONA PGA POTI BANG PTA BGOTGON PATTAGNATO ACCIG SGCAGO I FTAAAACU I GTCAGT SI DCAGC TSCACCC IA SACTAC ITCAAT I SGAAACT JCAGCAG SACCCAGAAA TCA STATI IGGIAAAA DTI DOCAG STGATICIAI TGOCACCAAATCCATIGI ITTAAAG SAATAGATGGTAAGGI ITTCI TT DOT TTI I TTI I TTO I TTTOTTTTTTOGA GACAA GGTOTCAOT OTGTCAOOCAG G OTGGAATA CAGT GGCA CAAT CACAG CT DAC IGC AGOC ITAC DCTOCTGGCCTCAAACAA TOCTCGCAC DTCAGOCT DDCAA 3 IA 3ATG 3GAC IACA 3GTG IGTAC UA COACAA UTGOOTAN OTTT PTOTATTTT TOT I ACAGACAGGGT OTGACCAT BIT BOODAG LCT GGOOPAAAACTCOTGGG RAAAT ROTAG ACT DET CORCET AC DE AG TACOBROAT A RESETER COLAAL III TO DAAMT ITTET OARD DE TRUAKTIT. C'EFFTAAAAAACCAGA ITA STGITTAGIIGA IGUTI GOACAA FAT SANIIGTAC FFAA CA DIA LITGAACT SIA FACITTACAAA TIGIS PTAACA TGITAAA TTT PTA TGTTAIS S PSITAC TTTATCACAAAAAAAAA PTT S SISAAAAAACAGA FTA SISACA CTCT AGAIT FGT COTG FOCAATACAGTAGOCA F PAGOCACATGT SAC FATOAAAT DOT F BAAA FATG BO FA BITDAAATT BAGA TAATAAATCAAGATAAGTGAAAAATAOG DAOCACATTTTGAAG SOTTATTGT SAA TAAAA FAA TAAAA TA TTTCAO IAGT AA TITTIBA LATTIGO TINGA PAGABACABIBATI TI TIATOT FITAGGATAAN JAANA IA IA I TAAAAATAA FITOAO FITIT FOT FTACT I FTT FANTGTGGTTAOCACAA FA'I ATAAAATGACA FA'TGTGGGC COCA FT BIF FTCTA CTA BACAGCA'T FGCT CTA AATTI AAA ACTA AACTAGCAG TOAATIAAAAAAG BAT BATAAGGG SICG SIS AAGTGG CTIACA COTGTAATO COA SCACT I FOGGAGGCCGAGGTAAGTG SATI, ACGAGGTCAGGAGATCGAGA CCA I COTIG FCTAA CGAGGAGAACCCCG TO 1 DIACHAAAATACAAAAAAGTAGCCGGCCGCGCGCGCGCGCCCCTAG DCCAGCTCCGGGAAAGCCCAAGCAGC AGA ATOGO GIGAAO OD GOGAA GITOA GOTTO O GOTGA GOCAA GATTOO O OLA DITO DA DIPOLOGO DA GODO GAGO DIGA G AGA BOGAGA, THOCOTO TO AAAAAAAAAAAAAAAAAAAGGATGATGAGGTTAAAAT BB TAAATTT BAT BTTATGTGTACT TTA FCACCATA FAAAASI TIGATISISTOA TOLOTISTOISTO DOA SATACTOA SIA SIS SIFAA FIGAGAGAGCATCACTTGAGCC CAG SAGTYC SAGGCTTCAGTGAGCTATGA PANTGCCCACTG CACTCTAGCCT SGGTGATAGAGCAA SACCCT STCTCTAAG GAAAAAAAAAAAAAACTTTTAGATTTCATTTATTTA CACATATATTATCAC ITG GAAAATGAGAAAAAGTGTCAAG TGG TTTGGGACCAGAGAGCCTATCCTAAACATGAAAACAA STAAAACACACAGAAAATA TTTATTTTGAGTCCTCAGTG STATGTAAGCAGCTGCAGTGCCCCCATTA FIAGGTTAATG 3GA 2GCAAGAA 2AGGTAA 3T 3GTAA 2CCTGGCCCAG 3ACA TAT SAGCTGATATAATGATACCCCAACCCCATGGTAACAT STT SGCTACTGAGGCATCTT SGTAAAGT DAA FTCTT SATA COT COOTT I COTTGOLACTAGATTEGGAT SAFGATACAAAATA FOCOTETA CAGOT PCAO I FAGA PET CATAAGAATGGA TGG BCTAGCAAAAAAAACCATTCTGATTCTTAAAGTGAAACCTAATAGAG BAGCGAG IA ICAGG IAATTT ICCATTCCC TAIST GGGCAAT GAOCAGT AAT GTIODGGCA SGATAT TAGAT DAIDDT GCOCTADAGGAA TACAGT CTIDT TATT TO DCAAT BGAA AAS SACGAAAGACOCCACGCACTTBSCTBAGCAACCCCAA SGT SATCTTTG SBAABTTAA BAGGCTGACTCCCCCTGAC TTG SCTOT SAAGOT COACOCTTT COTAACCCAGC CGCATCACT SCCAAGTT CACA TCA CATCCAGTC T CACTCTCT CTCG CAT STIGGAGGGGCTTGCCCCTTACTCAGA ICTAGCAATGGTTTTCATGCGTGAAATACAG JCATGGCCTTAGGCTTTAG GCAACAATC PSAGAGGGGAGCTTAATTGC FASTAGCAACTAATAACTGCTT DTCTA DC DA FAGTGTTATT FITATAATTG TOO POATOA TRATTAATAATAGTGGGGGATGAGGGTGACCA GGAAACCTTAC DTAGA DA DIT GTTP DGA DAA GACAT GAAT DAGAGAAGGGAGGTGCAGTGTAGTTAGTGAGGGCGAGTTGCTGTTTTCAFFTCAAGGTTGACTATTTT39AGATFTCT TTA DACCTTG-ST-STATAGATTGCCATCAT-SGGAACCT-SGC DAG STTTGACATGCG-C I TTAAI TTGACCTCTTGTTTGTTTC CTA SAACAAASGCCGAGTTAGATCAAGAASCCTTGATCAGTGG SAATCTGG STACA SAAG SACATTTAATCATCCTSGAT ATG DAGGAA AACATTATO CAGGTGAGGAAARI. AA ACACCCAAT DTGATTTG FTGGC DA FGAATAT 3T FFACTAGAA FAAG GACTTOTTTA IGCAAAATTGTGAAAGACATAAATGTGATOOCATAGTACOTITTTTAAAAAAAATGAAGTTGAGAAGTTTA CTATTTACAADA STGTCT ACCTTATAAANTEC CAGAGATAC DAAACASTCTT STGGO FT ST EFGACTTAGGGSTTAC FTGG ABA BOOTTA GRI RITTBOOCCADOTTA COMECTIBOTTAAA IDMITTITTATA KATATOTA KOAA RITTATAATA IDGATIITISA PUTTIAT POTT TAPFATOT AGAAPA FIA PTIK TIVA DTAGAAPTT FTTOTGAT GEGT IMAIT I I AFFITGAAT GAUGGT IACT TO DESCRIPTION OF TATGATTATEMENABLES TARRITAMINARAM TOTAMINITE MONAR LOADER REGISTED FOR SAME AAATTI PITAA HAAA TANTI SINTA KATTIITI ATTI TOOTIITA JAAAATTI AA TITTIIJAA TITTIIJA ADE COAPTE TATOTT STAT STOATHATE TO ACAAATTO SCANGOTOTOT AGGTAATAA OG AGTT TITA ATTAO SONGA AMANT PARTIT TITA CATETITI CUATTRANAM OT PATTOAT FABAGTAGGTO DAGGATTGOT FTTAGGGCTA BAAGAAATA TOGTTGAMACACAGTGAAATCTTAATTCTUIAACTTTTGAATTGTCTAANATCAAAGTAATCATCATACAAAAATAAACA CARAAAGTATGTGATATTTTTGTTGACTTT& TATCTTTGATAACTTAAATECTTEGTATCACATTTACCTTATCTTTAT TTATTATCCTTGGTGTTGTTAGTCCTTCTGTAGGTGATAAACAAGCTTCTATTTAGAAACATTGGTGCCACCAAGCAGCA CCTCTTCTACACCCCCAACCCCAAATCCCCTTTTCCATCCCATAGGAAAGCTATGTCTTGTATACAAAGAAAAGCTAT WAAAGAT GIGAUUWAGGATGAGGGAGATGGC ITTATACCITCATTTAGGAACCCAGAATTAGGTATAAATCCCAAACT

AADAAGDATOTTOTBAATTOTBBAAATTAAGDTATBAATTAAGDATATTAAGAAA, DAGDTOTTOTOTOTT AGCAGATGCCCTG4TTCT0TGGGAAGCCACGARAGGAAAAGCAGTGGCTCCCATATTGAAGTGTGGACCTAACTC TTOTOTOTATAC TOIGCTGAGTGAGAITAAATCOT TAIGIGKOGCATTAGTOTIACAAAAIGITATGCCATAAAA TSCCAGGAAGG DO GAAATGAATTTOT DACGGOOTGA GGAATGA DGAT PATOOTGGGG PAACATG LAGA PTATTTTTCCO TTTATTTATTTATTTATTTTTTTTTTTAAGACTGAGTCT (GCCCTATCGCCCAGGCTGGAGTGGAGTGGAGTAGCATCTCAGCT CACTGCAGCCT IT: CGCCCTGGGCTCAAGCGATTCTC ATGCCICCACCCCTGAGTATTGGGATTA FA EEGCTGTGCCAC OGCACCCAGCT WAT TTT TOTATTAT TAGTAGAGACACH GT FTCA LCAT HTTGGCCAGGCTGRTH TTGAA DTCCTGACCTC AAGTGATGGAC ITC DCTC/ GCCTCC JAAAGCACIGGGA PDACA JOGC LAGGGGGGTTGCGGGCA PTTT JCC TT FA TTGAAGATOTOHA. FGGTOCCTTCTACATGGGGTCTTCTAAAITTAAAAAGTAAAATTCTTOTOCICATICTCICAGA COATTITOTOT TTO TTOAT CACCAGTAATTIC COAGGAAC 10AA BAAA M CAGGTTTOOTTOOATDATA STIT MIGATTIC ACCAGTGAATGUGADOTGGCAGTGGCAGTTGATAADADAD DOTTTTAGCTGGACAGTTDATTATTAAAATC TCAAGTCTACTCT/TT 30T FAAATCCATCTTCTGATT/ACATA JIF/A DTATOTTTATGGAATAATGCADTAA DTOTTCT AGGCTTTTTCCT1: TCCAPATGGACATTTGCATATTT:AACGGTCCAGAAAGTCTATCAPA:1300AA - TGATGCCTAAT GGCCCTTTAIGT IT II DIIAGTTIGGACACTTACT II IIGAAGAGAGAG (IGGAACACIGIII) GA DUIATGICACCAAGI COTGCACCACTO CARGCA SCAGCATGGATGTCACCOGGAGCCAA GCCTG I SOCACCOTTTAOOT DI PCA I GAGGTTCAGTT TTGGAGCCACCAGT STAAGAGTTCAAACCAGCTGAGT SACCTG JAATCAGTAGAGAAAAATTCAT STAAAGCATDAGCTG CGAAAAAAATAAG GAAAT "TTGCAGTATTGCACT"TA "TTGT (C DOTGTGAGAAAGAAAGAAT, 6646, A ZGTA GA FAGA TAGCAGCTTCCATTTTAATTTGCATCTAAAAGTGAATTLATCA/ATAAATDCAGTGGTCTCTATTA STOTGTTT LTAAAA TAGACAGCCAGGGC CAGGAACGATCGCTTTCACCTATAATCC: AGCACTTTGGGAGGCCGAGGTGAGTCGATCATTTGA A STOAGGAGTICAN VAUTA SOUTGGC CAGCATGG I GAANTOOT ( TOT COA) TA TAAATACAANAATAG OLAGA I SI STTG GOGCATGCCTGLAAICUAAGCTACTIGGGAGGCTGAGUAGCACTTCCCTGAACCTGGGAGGUAGAIATTGLAGIGAG CCGAGATIGCCCD# TTPCA UTCCAGCCTGGACAGAGAGTAAGACTTCATITUAAAAAAATAATAATAATAAATAAATAAATA ACCAGGTGCAGIGG TOATGTCTGTAATCCTAGCACTTIGEGGCCCCAAGGCAGGCAGATGAGATGAGGCAGAGGCAGA AGACTAGCCTEG COAA NATUGTGAAAACCCCCGTCTCTA CAATAC AAAAATTAGCCGGGT ETGETUGGCA CACACGCCCGT AATCTTAGCTACT3 -G PAGGCTGAGGCACSAGAATCGCCTTBACCCCASCAGGCAGAGETTGTACTGAGCCAACATTGTGC CACTGTATT DCA MO TGAGACCCIGTCTCAAAAAAAAAAAAAAGAAAGAAATGGAAGACTATT MTA SATIAAAAGTT ATCATCTGT 3GG DELAAA AATACAATAGADAGGTTA GAAT I DAGAAGAG PETT TOOT 5T PTC PAAAD TOO BACT AGCTAG TGCCAGAAT JAC DTUTGCAAGAGGATTT FAAATGAI CO FTGTCA I DTAA DCTGAGTT PTATT DI AA FA DI TTATTT ATTTATTGAGACAGI STCTTGCTCTGTCACCCAGGCTCGAGTGTAGTGGCACCAGAGGI (ACTGCA ECCTTCAACT CTGGGCTCAAAT 3A1 CCICCTACTTCAGCCTCCCAIG1A GTAAIIGGGATTACAGGCACGAGGTAACCTTA CCCA CCTAAT TTTTTTTGCATTITT STIGAGACAGG STCTTGCTGCATGICCA SBIITGGICTAGAACACCTGAGCICAA BIGATITTCCC TOOTCAGCCCCC JAMAGTACTGAGAT PATAGGCATGAGCCAT 2011 CCCTAGCCAAGACTTGAGTTTATT JAAAGCTAGC AAGACTTTGBAGITT AGCTTTATTATABAACAGTCAAGTTTBBITIAGIIFGTCTAGATTTBATAUCTFOTTFBBAATT TCCATTTGTGGC AT STTAATAAGTATGCTCAAGTGATATATAAASATAAATTGGCCCATGGAAAAAAGTCAGCCTCCTC CAAATGTATTAGGGATGATTATTAAAAGAGATATTCCTGAGGGGAGGTTGTAGGGCATGTTTTTCGATGGGGTAAA GAAAGAAGAAACAAAACCITSTTGCTTACCCGGAGTTCAAAATCTCAGAAATGCTGGCCACAGAACTCC.CTGATTATT CAGGITTAACCAAIT II DIIGCCICAGCCTCTCGAGIA DIIGGAATIACAG HIBTCCACCAD DAT BICCAGCTAATTIIT GTATIITTACTAGAGGGGGGGTTTTGCTCTGTTGCCCA GGCTGATCTTGAACTICTGAGCTCAAGIGAT TTGGCALIAAAAGCAT LTA TUTATTCTTC GACCCAACTTTATAA BAATCL FIIS RGCTTGLAGCL DARCC AAGCCDAGTL OTCAATGAAAATTTALAGUGAGOCTGLOAGATTTATOTGAGAGOAATGT OLG ITAAA CCATITAAA: AACAAGAATAIGAAT THE CALL OF THE CONTROL OF THE CONTROL OF THE CASE OF FAGUAUUT FAGAAGE TOOTTGAGGACAETTTTGGUSTATTCAGAAGAGGACAGGCUATGCAGATHACT WITTTTCCCAC TATACACAATITATATATAAAATATAACATTTGCAAGTATTTATTGTCCAATATGCATGTGCTUTCAGCACCTGAGAG STTTTAAAAASAART CATOCATCACTGTCCCCCAGTCTCRATATGCTAACAGTCTATTTGGAGTGCTCAGTCTCAAAACA ATTA PLA PERO L'OLIGITATION DE CANTER TETRE LA CONTRACTE ANTA CONTRACTA DE CONTRACTA DE CANTRACTA EN CALCATTA CANTRACTA DE CANTRACTA DE

TATTTCCGGATOTTTTTGCCCTCTAGATGTTGCATCGTCATTGTCAGAATGTTTTCTCTATTGTCAGAATCTTTTCTCTACATCAA ATCOTTCCT TCTCATTTCATCTTGACCATACTCCTTTAGTTCCATCATTTATATAGAGGTATTCACCAACAAGAGCCAAT CAAAUTATGGGGAGTTTAATAAAGGTCTTCAGTGCCTTCACCCAATGAAATGATCTAGTGGTAGAAATTTTAGGAGCCC TSGCAAUCTUSCAGASSEGAA DGGGBATAASACAACATTOTGIGECTGAGITADDTGCCAEGGTCTCTAEATCAAGCCAT ASTUTUTCCCTSTTTTT STACTGCABSCT SECTGGACCTCCACFSTTSSTTTTATAATTAAGAATAAA FGATTACAAGA GGTTCTAAAATCTCTGAAGCCDTGGDAAGAICCAGGAGGCTTUTJAGADAIGBAADTCAAGDTGAGGICCTAAGDTGDTT CCTACT PGGTATAAAAA PCCC PGA PA PTO DAGA STAGAGTTTAGAACTTFFCA 3 3 FTACAAATAACT 3AAACT 3 3 TT DAA ACADACAADE CEAAC TOT ADDTOTITIADACE COACTITADAADATATDA ACACATACADETTET AAAAADAAATTTAATTA TGOTGCOCTOTGA: CCAACCOTTOCCATS 3 CT FCCCCTTGCAFT FCAACGCAAF CCTAACCTCTCACCT 33 3ACFACAAA GC FAAGATTATTT: GAG BOTTACAO PYT PROW BGTGGAGGAAC PROPOTBFAA FOTBAA FAGCATO FFA FA FAAGACA DE A COLDADA DA TOLO TOLO CAPTE A CARDO POLO COLO COLO PARA PARA LOCA A CARACADA TOTO A CUCADA CARA PARA PARA P SACA COATTIUGU, GTO BAGGAITI BICA CIGIUGAGTICTTACHAAI GFAAI BACACA BDIAACAT BBATATABTBAT TT BOAT BATA SCC4 AATAATATATA BAAA FIAAACATT CAGA STA BEFTAAT FOA FATGTAACT PFOA BAAC SAAC SCCTT CTAATTTAAA 3T-34 GGCA FAATAAT 3TTA F FAAA FATAATAA DAT FA FAAA FA FAA TAA DADTA F DI FAD FAC FAC JAD TAPAGETTTACTP: AGAAATCATTPTTACGCGFAGTTPAAAAGCPCCCAGGCCCAGTCCTCGTCAGGAAAACCACCTA CA BAGBICAAAAT DOTTOO BA PGICAA CATOA FA CAAAGBBCAG FA OFT FIBET OF POFITT FATTOF BABABBAAA BBAAAB GTACTATTTC FFG (AGGC CAGCAGCTTAAACA FGGAATAAAAA FAGT FGGA CAATAAA FGTC FCCTGTGTCTCGTC TTC IG BAAATATA D BGCAAAAT CTCAGGT BBA BDB BTA CABGGBAA DT DIT PG BB BAGAAAAAA BAAAA BB I DA CACAAAB TAGAA BAADA BIRGIDATTAA BODACHGTO DTOAAAA DTA DTIOT BAOT BAAT DT STOTTOA BAAT PGODAA BA STTA DGA GGCATICICITIBATICIGGG BC PGACCITGGC PICA BAAICA EIG BCAGA BAAACA DA DDAA BAA BAAIGH DICTAGA DGGAG BITG CCA FG FBC DT BGT CCACG DOGC FGCGTTA BTG BDF BA BTA TC FGA BCA FGC T BBAGGA DCACA BDTA DDTG DDCGT BBGC AGT STOAG DI POCA SGIA SGGIGIGIGAGA S DITTIPO DI LIAGAGDASTGGIT DI DAA DIG SGGOGATT DIGITOOCCIDAGO COCAGGGA DA PTE I SCAA TOTOTAGA TACA PTETETGIS TATOACAACTIGGGA PIS SIGTIAG DAG STISCTACTIGGAT STGA CTGGTAGAAGCCACGATGCTGTGAAAACAT LCTGCAATAGGAGAGCLCCCCGACAAAGAAT LGCCTGGCCCGA GTASTSCTAAGGTT SAAAAATTOCAAGTT DATA TA FTA DA FTIIG DETITOTAA FTIG DETITOCIDATO SECS FIGGE FIGGE FIT TTTTAAATTACTGI TTACAATAATGGCAC CTAG BCATTA FIAATAGCACTTTA FSAGA CACTTGGAAA CACTTTCACATG CATGGCTT JATTT SAACCTCCCCGTAAAG JTGT SAGGCA GGTAG STAGGGAAG SDGGTTATTATTCCCACTT DGCGGATG AGAGAACTGAGAGA SCAA STITTTCTAAGGTCACTTAAA CIDCITTTITCAAAGAC DIGTA STITGA CACA STATA CIGACATT GTGAAAGT TTGGAAAACATTGGATAAATGATTT FOOTO DIGGOO JATTOATTTJATT DDAJTOITOAA JTTTATAGGGGO CCACTCTOCAATCCAAAAATCAAGAAAGAATCAAATTGA DCTGAAAAGGGAGAAAAA 3GCTGAATCA STA DCTTCTTAG GATAAGCTGAAAA I TACCCACATTTGGCAAAGG SAAAT PGTCTG-CCAGACCTAAAAG DTGGCTCGGA I SGG SATGCTCAG IGECCACTIAAAG I ETTOTTACTGAATAGTITTAATAGT EITTAGAGAGAGAGAAAATAAAAAA EGACAATG ITGGGTACT TTTTTGTAAGAGA DATAGTTGTAGAGATGAC DATOO DIGAAA DOATGAACAATATA GO DACAGTAATAGAGTGTTTTT CAAGCCAGACTCAC 3AAGTCATTTACAAGGGTT IGTAT FATTOT PGTTTGAATTTACATGGCTGATTTTATGAAAGGTT TGTTCTTGTTATT; TTCTTCAACACAATTTTGT; AT; TFGTATGAACCAGAAAGAAGAACAATTCAAAGTAGCTTCCCC TTGCCTCCTATGAATAACTCCTCCTTTCTTATG FTCCT DAAGAACAAAAATAGTCATT DTGTGATTTCATGCTAGCAAA TGAATTTTCTTCTTAATTCAGAAATGTTTGTTATAAAAGCTGATAATTAAAATCTCATCCAAAGCATAAAAATAACACCT THACCATHTGATA" TATGAAAAATAAATATTAT NGTACTACTOTOTOTOTO SOAGGAAAT GGTAAGGITTAGGACTTGA TATTHTTH ATTICAHTAAATTATTI TATAHTMITTATOOTTITTO NOAGGAMIATAITI GATTTTA TATTIATOANTT AAATATCAATTS MITTI MITATT A DITTIMU CITTA KOAA KOITTACT OTT OTAATITTA SOTAGAATT MIGTERA ATAGERERAKABOUTTATTAGAGUUTAUAAARAK AAGTAAGANA HATTAGTAA TEAAKNII ETANABTAATIN HI pageografitat at ataltatating, matiget in the first of the state and activate at activate at the following control of GAAC BITACATTOI AACCAGAGAGACCITAATATAACTAAITTATTOZAATCTTTGTTCAGTTATAATTAIGAGAAATACTG TTATAAAGAGGCACAAGATATTGTGAGCATTTATGGTGCAGGCCCTGTGGGTCAGGGAAGGGTGAAGAAGGTGAAAAGGA AGGCAGAAGAAACTGAAGTGTGAGGGCTTCTTGATGTAGAGGAGCCAATGAGTTAGGTGTTGTCAGCTACAGAAGAAGA CCAAATTATTATTAATGT@TATGAGTGAATTCTTACTTCTCAAATGGGACATACCAAATGAATTTGGAAATGTAGCTGG TAAGTGAAAGGACACCCAACCTAGACTGACACAAGGTAAAAATGGAATTTATCAGCCGTCTGAGGAATGTGAGCCTGGA TARBANTER BATART REALITARRER RUCCAARGATSTCARGAGGTCACTSTCATCACAGGGTTCCCATCTCTCCCA TORITORIAN ACTITATT TITTA A REPORT BOARDA DA REFORMACIÓN DE A SA CONTROLEMENTO DE ACCASION DE ACCASION DE ACCA

CAGATGTCTAGTGTTGATTTTGCAAATGCTCTGTGCTTTAATTTTCAACCTTGTTCTGCTCCAATGAAATAGAGCTTTTG GAAAAGATTTATAAACTAGAGATAAATAAATATGTGCAAGGAAAATAACTTTGAGGTCACTGAATTCCAGGAAACTGAGA TOAC TGAAATTOTOTOTOTOTOAGAGTBCAATATTTATTTCACAACTGTAGATACGGACACAT FOTTABATAD FBDTGTFAC TTGT ACCTCCCTGATCCTGAAGCCAAGAAAGTCTGCAGAATCCTTTTCCTCTGACTACACCATAATG4 3GCTACATGGCTT (AAA INTOTTOCTO PAATO EGRANAAT EGOATACATTO PAA PAGTATAGATATOTTO SE FIA PAAA PGO PINAAA PAGA PAGA PAGA PAGA PAG ATTI DTTG FATOT I DTT GTC ACA GAAACAT DATAATADA DAGGGOA FGT DTGGAA GAAA FADT G GCADAAAGGCTTI BAGA BOOT COT OF A PATT DOTAAAA DITAGST TA DASTA PTGCATGT BAAGA BATAG BB DTA PDTA PBA DAAD PATGTOO TGAC PGATT SOTAA 3 3 FTGATT DACA 7 3ATOT PBO PAA COAGGCOAGAAGGCAGACA 30 FT PPAG PPOA CAA 30CAACTC TGA I CAGTTAGTAGTAGTAGAC TGGA SAACTA FOOTTAA BAA FI FOGA SACTATGTOCAAG TFOT BESGAAAAA STGCTA CAGI FGATTAGT LA FIDOT ECCATGAT LACAGUAATAGBAAGGABTGBUAT BIRGTGDUA DO DEFTT BIRA FUULLAAACI GGGGABGTT FOCCAT FPCT FCT FTT FFATA FGCATTTCTCCCATA SCTG FGAGC FAG SAA GAAAA FGA FN SF FGACCT GTCACATATICACTECICAGEGGCAGIGCTAGGCTGAAGACCACICACCCAGGGIGAGACECACECAGAGACAAGATCAGTACT COPTEND THE EAST CARE COADINE POT 1 POT OF COTT TO TOTT CARE TO TO THE ARABO COAD AS A COADINE WILL CORRECT COADINE WILL C TGCTCTGCTAGA GGCTCTAAACGCAATAGTTTATGTAAA GGAAA DAAATGCA FGGAAACAAAATGTCCA GAAACAAATATT AACACACACACA FTAA DTGCTKKTAA I BCCATGAAAACTT DOT TAATGAAGACAG DO DOG DITT FOT BIT IGT DITTATGTCAT GGCTGTTTATC PBAGT CAACTCCAGA STAGGAACATACTTCABAAAAAACA DCACTGTAA YIDA BABGTCA A YIDBGTGAA ACACGGAGCCTAGTTAATG TTAATT 3 3GTCTT TGCCTTTTGAAAA DCAGGACAC CAGCC DA 13TCC DT TAGGGTTT CACTAAAGTAACTCAG CTGTTCTGA CATTGAG STAAGT FICC TT FATACAAAAT CT OCTAA I B FT FAAAAAGAAAACGT GAGGITTIGAAGACCAGITTGCTCAGTIS CGCCTC TICTAAAI SAATIS SCAISA CAGATA CITCII SIS SISTA SAAIT AAACTAAGACCI AGTITAGTUACGGTOFTGGCAAGGATOTGCACACCAGOTTOFTGGTTFOODOATTCGGGGGTTDOTTGTGGTOTOTAG TOTOGTOGOCOTGTTCTOCAGOCTTATACTGTEGTCTCTTTCAGAATATCTCTTCCAATETESTESTESTAEGAECTTETEGTC TOTO AGGACACOCTG POACOTWAGGA SCATGG SGTGTG DECAGG DIA SITA OT FOAC DEA EA ET EEC DIGETA SECOLOCT GGAGGAGGOGGGGGAGOTO TTO AGGA OGGTGA STGGCCA SAGGGGAT DOC SGGG COTGG COT COCATACT DUAS CTGGAG TTGGGGTGCTGGGAACACCTGCTCT PAATGGC PCAGTCA SOCOCA DT POD DGAG GA DAC ST GODA GGGFG FT GODA GA GGGATGGGCCCGGGGGAGGACTTTGATGTATGCAAATTGCATGAGCTTCCCAAGGGAGCTTCCCAAGGAGCTAAGACCTTTCATCATCACCAGT AGGC ACAGAGAGGTGAAATGGCCTG CECAGGGTTACACAATAAAT AAAGGAATGTTTTEEA ETEECTOGTTTT POOTOT CAGAGAGAAAAAATTAGGGAHGAA CACTGG GAGGAGA SAHGAG SAA TA CADA SA CAGT ST DTT DCCTDCTAG DCACTG TGCAGTCTGAAG SACCATCACAGAC DAGGACCAGCTTA DA SAAAT ST SESCACA SAAAC DA DI SA SA DIECONDI SESTAA OGTAATOTG BAT DTAAACACTOOTA SHATATA NACTAGAAAAATA NA PAGAGAGAT BAA 9T DATT BA BA NTOA D BOOAAA GAGGAAACA DTC TTG I DIA ITT TCT I TCTTT ITTTGA GA GA GA GDO PA G CTCT GI OGC DDA G GO PA GAAT (DA GIGGTG ADATI ARGELT CRATE AG TACTOK E AC TEO GITCITCITA A CE AAO TITCICA DA OTO COLO BAGITA GA FIAGALITACA GGTGTGCACCACCACTCGGCCAATTTTTTGTATTTTTA BAGGABACAGGATTTCACCCTCBTFGBCCAGBCTGGGTCTCA GTT1 TCATTTTAATAATCTCC: TCCT CCTTTA CATTTTAA 3C CAA 3AAAGTA TTCA 3TA CTTTACTA TATT IA 3CTGACC CAAT FITGITTTCATCITATAC", ATA DECATCO ETATTI EDDAGTE ET PA ETECCAA SITERO DE DI DIDIACAA E EF PATITA TTTTAATTATTGTTTTAACTGTCTTDTCTCTATTCTTGCTTTCCCTTTCAAGATTCAGAAAATGTCTAATATATCTCAT TTTTCCTCAAACTCAACAAAATGAATTAGAATTCTACTAACTCTTGGAGCATACATTTA GAACATTTAGAACATAGAAAGGAGGA COTOTSATSAAATTTAAATATACTAAAACTGOOTTTOTSAAT PSOTSTTAGTOOOTSOTAO JAAAOT POTOTOOTTTT CAGO CTTGGCTCACTACAGCCTTGACCTCCTGGGCTCAGCCTCCACCTCAACCGCCCAAGTAGCTGAGGCTACAGGAGA ATGCTACCACACCTGGCTGATTTTTTAATTTTTTTGCAGAGATGGEGICTCCCTATGGTGTCTCLAGGATGATCTAACTTT TRATEM OF ARTHALISM CARRAGES AS EBANATIAN NEBERT BURANAN OLD TO CALTHOLY TO THE TRANSPORT TRANSPORT TUTTITI DAGAAA IT ITTE EUT TAATTAT I SCHAMAAA HAITAAT AA HAATTA EUAAAA TOT TOTAAA AA AAAAA TAATTIAAAAAAAA AA A AA - I MAMAMMAA MAMAMAA MAMAMAA MAMAMAA MAMAMAA MAMAA MAMAA MAA MA SCACAT TSCTTTTSCTCTCACC TGTCAAACAGAAAAGSSCTGAAA ITCTTCTAACAGAGGACCAAAATTCCATATGTGAA AACATACAGCTTAAATTACTTTATAACTAGGAAATGTGAGAAATTITTAAGTGTAATTAAAAGAAGTCCCAGAAATCTTT CATCGWATTCCTTTGTTGTTGTTATTTCFYAAGTTTATTCCATAAGCATTAAATTTTTTTAAGGAGTAATTTTTGLTTACAT nagunata kraguaamatgouttuutaa danaatgasagannootgongetug daanudugtgggunnutaagaatganat 

ASAAASSTATTAGGTGAGAICATGAGGTGATGTAATATTTTGATAGTTTTTCCCTAATACTCTGTGTATGCTTITCACAG TITO SAATTITATATGETSAATAT FTATITTSAAGTITTGTGCAAAATTCAATCAAGGTCATGTGTTTTTTTTACCCCTT TUCAAATATTAGTAGTITAIACTAGTAGATAGAGAGTAGTAGAGTTTTCAACAIGAGTTTAGCATCTTGACITTGAAG TAAT TABOCAAAT 9A TT9AA TCADOT I TAGA TAATG 9TGAGGO PATCOT TAG 9TATCACTGGA FGGCACDT 99G9 FOO TTOTUATURG BAGGTAOTCAC CTURG COAGOO OBSCICCA ACO FOCCAGIDAA FA TAGA FACA FACA A FA CAACAGA AAAG NOTA DO TO TO TO TA SA ACCAAA SICTIGAAAGCA TIGGA GAAAAAGA GAGAACA DOCTAGAGAAAG STICA GAAAAAG AAACACAGGT PATAA BEGGCAAACACTAAGAA CTCAGTCAA AGB FGCOTC DE GAT EGGAT FTG BAFGAACA BEAAT FTG TT FACAAAGA BOOTG BAATFA DOAAGCA BOA DTBOOG FOOT FTAACT BO POAGAA FTAAC BAAA BA FT BA DTBOTFAGG CTITVATTGCTTTGAAFTTGIGCCTCITATGAGTGTAAAPCTTAAAACATTTGFGFGTGCCFAAGGGTTCGGTAACAGCT CONTOCATIGO DA ANA NAGA CA AGA GOGILITA I DOTTA CITICACILDA A SAN GOCA LIGO CONGGIGGIGGICI GAGILIGA GITTA CODCABABT STITA SCACAT BAGABABA BA SCIAGCAA I I SAC COCA STOCAC I I SGI PODCIA PA I I SI I TOCCO DIAC TTAGAATTAGAGGTA LATATI FFA FOT LOTT GTGCAO FGT SATT FOCACAATA FG GGAAG GOT GGTGA C FTAGAAC AT CCAGGGTAÇA BAAGG BGAGAA BIAAAGA BTG FGATACCCCA BGA BATACCCCAGCAAATATAAT BATGITIA BET BAATTA GA BUCCAA (ÎCATACA FOTTATA SE SAA SICATATACCAST FSACA STECTATTTTTA FTT FT STOFTAG SAAA FSGIZSAAC TT PGCTCATT NGCTCAGAGGAACT CTCAA FAATCAGTGAA CATCATTCTACCTTGCACTTG CTC CAAACTTATTT CACTT CORAGAGAC NAAGA FTTGCATTA TGT FAARATAAOOTTTA TAAACTGTTGGTTG FT FA TOTAGGCA FTT FAT FETGA AT STITTIGGT SCAGAATTIGT GGAAGT SA FTAAAGACTODA DID DIGTGGADAAAA DDAAGTIG SATOCTAA DAA SETAT ACAAAAATTTACAAAAACTAACCA TCAAGTT DTAAATCOOT TOG TTCTCTACCCAAGAA TA CCTAATGATCT DAT DTATC POSACTOLOCAASTOACTTAAATGCAGPCAAACOTTTTOGCCIA SAGUTUAAUTAOLAAT EST SAGAT CLAAA SAAAA TATAGTCAAA 3GCAG 3AATCATAA TAGGA 3C PACCACTTAT TAA 3CACCAACTGTG PACCT 33AACTGCATTAGG 2DCTC TAGATAGATGATTTTATTTGATGCTGCAACGAGGGAGTAATTTTGTGATTCTTATATAGAGATGAGAAAAACTG AGACATGCAA SAGTCAAGCAAGTTTCAAG ST CATGCAAGCAGCA SAGCCAGTACTCA SACTICA SGCCFST 7 CATGCTCTCTGA ACCCCTACTC TTCAGCACTGCTCTTTACT SCCTTTTTATAAAACCTTTAAAACTCTCCCATTTCAAACTCGACAAACACTTAA TIGGCTTCCTTCTTTA-GCCTGCAAGTATTCCTTCCATCCAAGTCCGGGATCACTGTGCTGTTGGGGAAAAAAACGG CHTGGGTT TG 3GTTT CCTCACTTT CACAA 3A 3GGTATGTTC CATTTCACCCCAAAA T 3GGTG TA CAGTTCT 3ATG CTAAC ACSTGGAGGT SGTATCAGCTCCCA CAGGGTAAAGGCTCAGTCCT CCTCAAGACTGC CCTGACTT CAGAT 9C CAGCTTCAA GABGGACCCCCAGGGCAGGCCACGCTTCTGATCAGCCAGCTACAAATTTGGGABTTTCTATAACCTGTTABCCTTGAAAATA GGAGAAAACAAAGCAAATAATAATAATAATAATAATAATAA TAA TAATTAGGGAGTTTO FATGA FAC DTGTTAGA FTAAATAA TTCACTACRA TGACTCACAGAATT CCAAAAA STACTCTGGT TACTATGAGAGTATTA FGATAAA GGGTGAA CATCTTTT GTIGGGTTT AT TTATGIGGTTGGTGGGTCAT DA STGTGTTGTGTGTGTA DCAGGAAGGTGG SOCAAS CGTGAGTGT DCAGAGATT TTOTTGGCGT TTGAT (ATGTAGGGAAA IT BAATACAGTOTO DAG LOCOTOTOTGT LICODA BAG BICAT LOAGTT LOAGT LAG CONGRANCA DAGAN INGGMONT INGGMIG CONCTIGGO A DOCIGANGO NATORA DIGGO DON GONTO NATORA DE CONTRA CONTRA CONTRA C TAGCATCACAAGACACCCATCACTGA. 3GAAATTCTAAGTG TTT STAAAGCTCTGT 3CTAG 3AAATGGA 3ACAAA 3ACCA GACATATTCT TTATTATACCACAA 3CTGA TG TTGCCCACTCAGO CCAACTCAGATG FOCAT SAATGAGCTTT DTAA 3TTA CTGGAAATAGTGCAAGTGCAAGGTATCATTAAGGGCCCTGGGACAGAGGACCATTCACCATCTAGCAAACCTATAAAATG AAAGGTCCAAACTCCCAGTTCCATCTTCCAGGATATGAAGAAGATAATGGAAGAAGGGGGGGAAGATTGGCCAAATTGAAGAG TTTGTTTTTCTACATTTTTCAGAA PGCTTTC PCACTTAAGA DACATTCCCTAGCCTD BGCTD BAAAGCAGTB BCTBTGGT AAGAGTTIAACTAATCTTCAGACACACACTETCTGGGAGATGGAGTTGGCCGTGTGCCCACAGTGATCTGTACATAECACA AGCTGTGTAAAATGTGACCTCCCTCAGUCAAGGTGCCCTTTTCCCCTCTTTTAAAATTCCCAGGGTAGGTTJFGAJAGTT TGGAATGAGASTCTGAACCCAGAGTTACAACCAGATTTCATTATACTAAGTCGTGATTTACASTCTGAGGTCAGTGACC CACTCATCCC TTCAGTGGGTSAGTGTCC DAGCATCTGAAC FCATGGTCACTTTTT TTCCTAAGAGATTGT DETCETTAA BACTI AAAATENDEE ATCE BE AE TAAATTTETETETE BAE TETAKE TE EWE BIBBEUTTIETTET ECTIATET ENTEAG. TOAL CALCIARBAARATAARAAAAAAAAATARI ATCA ATRITAN AARAABARI EFTE EFTER AFTATATE AT AARAAAAAATTIE ET TIT ENTER E MAMATIK IT OO STEED OATTE STAGTE DAT FIT STAATA STI DITEOTITEED DIT DIT DAGTAGTATT 1991. HIST A TIANGA PARTETT TI I TI PITATA KI TI TORI KARI KARI KARI KARI KARI KI TI KARI KARI KARI KARI KARI KARI KARI K OT BRADA AT TO FOR A SOTT TOTATA OF A CATAMOR OF TO ATTITUTE OF GIADACACATAGGASTS FGSTIGOT FOR COMMITME STADE COMMITTAMOS OF A DAMAMAN OF STADE COMMITTE STADE STA POSTOTIGA GATO AGOSTOTA GOTGATO FOCATO OTTIGO CAGO ACTTIGATATTIGT FAGITTI CITTAGITI CIGOCATTO ATQUITTCCTCATAACTGTGAGGTAGTCATTGTCATTCTGTAAAGGAAAGTTTGTCTCTTTGGAATAGCAGTTTGCAAACT CTCATACCAA3GCTTCCACTGTGGATCAGTTTGCTCTGCTAGGAAGGTGCGGCCGGT3GCCCTCACTCTCCCCACAGGCA CATTCCCTTCCCTCCTTGCAGCCCTTCTGTCCTTGGGGGTGGAGAGCAGGAACTTCTGCTGCTGGCCACATTCTCCCCTG CATOTOTA ACTITICTOCA OTOGOCAGOGO O TOCCOSOCACOCOTOTECCIOCATO COCCOCATIGOSTOAGOSATOS THE STATE OF THE S 

HAAA LATBA LIATATBETTET TITTITA TUUT LATASTEOGA SAAAATOOCATTTAGECAGCTACATATTTATAGCACI ATTGTATA ITAAATATTTAATATTTTAAAGTTATATCTTTAGTATAAGTGT STTTATGTATTTAA ITATAATAT ITAATA TATATTTCAATTATAAACTIGTACAACAGATATAT ITACCIITIAAAIATITATATAAAATTITICTATATTTCAAAGC TTABAGGT BATTIAAGGATAGTIGTGTGTTTAATTATTGGAGAGGGGGAGCTBCACGTGGGCAGCCCAGTGAGGEGGTGA TGT6016T333AAAGGGCGTGTAAGGTAGACAA3TT0ACTGACTAGCTTCTAGCTCCTAGCTT00T0CT6T6ATTTTAAA CAAGC FACG TAGC TICAGTTTC ITCATCTATG DA FIA SCAGGAAAGACCTCTAAGTACAGTA DAA GATTATACTCATTTT ATTAA (AAAA 98A), TGGTCAAGAAGGTCTCTCAAA CCACAGAA TTGTTCAAAATTCTACACA CCATAAACAACTTATTAT TOTTTAAAA BAGATATATAGAOTTATTTG 10G10C ITTTTA IBCAGGGCCACAGACTTO101GACIG IGGGTTTGC TGATOACAA I TOXGOATTTTOTI TTATAAA CIACA OO GGTAGTGOTTTGTOCATGATTTTDA 3 FT FTGOTTTGTGTAAGO ANA STIBA SA SINTI BAAGATOOTI GTTAAA SAATEI SA SAGCAGAA SOCITOTGGATGTTA I SATISTEET TIT STOLOGAG ACTTT BACA BOART O ITGTGCAR ACCTAATA IGA DAG BAATTTTTATAGCAA DTCACTTT DATAA IATO IT BTCCAACCA TTTESCITT SCITTLOATAGAAGAAAT OTTT TOCCIT TOCACAOO CATGGTTOATCAGTT CICCA PTATOTAATTAGATT HERT CATTALLALCA DA GAAGTATAAGAS FOATNATOAN ETTESTSSAADAAACADAGATSAA TIBIF STGAATATATACACT GTGGC PTT DAMARA OF IGAAGAAAGUULGAAGCA ST SA DTCAG POGGGAGGAGGTGGGT PIAGAAGCAT DTGCTGTAC TTOCTATA DITTOTIGS TITTGGACITTTGAACACT BAGA BATTOTAGGCATAACACAGATATAAACTCATGGTGCCCAAAA GGATT DGAAAAGGTTTTGTTTGTTGATTGGT9600FF000TTTGGTTTGGTTTGGTTTGGTTTTGGTTT00TTT00TTTTGTG TOTOT DISCIDINGTON PROTOTON TITTOATS STANDARD PROTOTON FUNGOCOTAGAGN SOAD PORAL SAACA TGGCT CACT SCAGCCTCGACCTCGGGCTC SAGCAATTTTCCTACCTCAGCCTCCTGT STAGCTGGAGCTACAGGCTTG TGCCA CCAT SCCCAG CTAATTAAAAATACAGAGA SATA TATATTI IGTAAGAGACAGGG SICITA CTTTGTTGCCCAGTC TGGTCTCAAACTPIT 3GCCTCAAACGATCCT ICTA CCF IAGCCT ICCAAGGTGCTGGGAT FAIAA 3TGTGA 3CCACTGCA CCAGO DIGAA BITTIT DI LIGGOCI I COTIDOT 1000 DAA DAACOT DAACAACAGITTOTOA 5 DI 5 INTIGOTAG AGOTGTAGA ACAAA SITTO DATAGA DIRGGITGGOTTAAADAADT SAAAT TIADII SIDIIGGADAAT TOTA SAGSOTAGAAGT TIGAAATCA AGENGICAS CACTET RECTECT TAGAGES THE PARS SAAAGES TO TET TO CAGGEOT THOM THE ACCTET GACA COCCUTTOT DOCTOT STOTOTTCACATOATOTTCCCCCCCCCCCCAGATTTCCTCTPTCCTGTAAG ACACCAGT CATATTESA DIAGGETIACOCI GCIGGECT (AT FIFIA DITGATIGCOTCI STAAAGAECENINI DICCAAAGAAGGICA CATTO DEAG DIRACTIGAA SETTAGGACTI DEA LATA DA CATTIGGG GEGAACA CAATTOAA DIDRATAAAA TI JAGAAAAGA CTOTA DOCIDAAAOCA SOAGAACT TAGCAAATAGA FI SA TIGACO DITAAAAGAATTOCA FITA DI GAAAAT TOACOCTOA GTTGGAGAAG SCACA SGTGATAT CAAAAGCC FGT STTA FGATGG SGGAGAAATCTTGA ST SCTOTGCT FCTACTACAGC TTTCT 3CA / T 3TAAG TT 3AGTAACATGAGGU //ST 3 FG D 3 STGSCT/CTTGCCTSTAATCCCAG CA/TTTGGGAGGCCGAGG CAGGG 3GA FT 300 TAAGGTTGGGAGTTTGAGACCA 3C DF3GCCAACATAGAGAAACCGCATCFCTACTAAAAATACAAAA TTATC DGG 3T STIGCT 3G TGCATGCCTGTAAT DOCA 3 CTA CTTGG 3AGGCTGAGGCAGGA 3AA FTG CTTGAA DOCGGGAGG CGSAGATT SCAGTGA SCCAAGAT CATGCCAT 19CA DT CCAGCCTA SACAACAAGAGCAAAACTCCATCTCAAATAAATAA ATAAATAAA TAAG I AAG ITGAG I AACTTGOT DAG IAATA GGAAAA GOCACCT SACAGGOTA SAAAAAACAT GGACTTTGA AGATABACATACTTG FGATOGAATTATGACC POOT DE STIACIAC FG FGGCATTCTGT GGAACTTAACCTTACAAATCC COOTTINGAILISTA AAATGGAGAGTATAAAGA POTTISTII SAGAGGAATAAATGITAAATGTA LIIJAAAGTITO ITGGAACAT AAGGAATCAA SAAAT ET FAGGCCCATCTTTCTTT FRAADDTGTTAAGAGTATTTTAAATTADFOT SAAAGT DTTTOCCTA GOTGO ITOTICANATICAGGTGGCCTCTCTGTCA FAG DIDCAGGCTTGTCCATAGCTTATGAGA(DAGACATGACTTCC CTAT S PTTAU STOT CATGTTCAGTTTGTTTT SACADO SA PTGAA S PTGCCATTGAAGACA PGAAGAGAGACCCTGCAG TTAGCAGT FOCATTAACCAGGAGCCGCCTGATG CAAA SATGCT PCAGATGCTGCCAA GGCTCTGTGGGAGCTACTGT THE TRANSPORT OF A COMMENCE OF A CONTRACT ON GARGARTO COTA CONTRA COMPETCA CODACA PONACIO CAGO SETECACADECACADECACA CONTRA NACIDURATA NOGRAGADA CARARAGO DE CARDA DA TOCA A COMENTA DE ANOCA DE ANTOCA DE ACOMENTA DE CARDA A COMENTA DE ACOMENTA DE A BAS DI BOGA CUTCA DI I UTTAGO CTA UTTCAGA CAAGA DIAGAT DI TOCTATCA GACTICI I AGAAGACTGACTGACACACAC TTOAGIATQIJGCI CAABCAGTETCAGATBAAGIGAG TAGGAGGCTAATACCTCTGTCCAGIG-BCCTCCTTAATTCAA ATOTABATOTUTTOTEGECOACACTTOCACGGCAGTTAFTCAGTGAGCATCATGAGTCTTTTTE ATTCAGIGTAATTGG ATTTCCCCACAAAAGTTCTGAGTGTACTTGACATCAAGGBAGCAGAAACAGAGAGAAAAAGCCTATTACATTCCCAAG ATCAG SANANNAR NA FGAGGAMAGGTTTGCCTTTGTAAG FGCCAATCCTTTGATAAAATG BAAGACTTTCCNAGCCCACA a matic etotatotis faca patichatat etot pactoantocadoattat ecaaaat gaticti teccatigacigoaa. TAGATAKOTOMANAAAATGAATAGATOMAGOMATOOTGATTTTTAGAAAAGOAAOTOAAAGOAGATACOATTTGATGO

GCCTGTAATCCCASCAATITEGGAGGCTGAGGIESSTEGATCICTTGAGSCCAGSASTTDAAGACCAGICTGGGCAATST NCT BACA TOOGA BOATCA CTT BAGC CT RODAA DE BBA BUITG CACTGAGCADAGAT CAT BOOA CTGCT CTCTAGCCTGGG RADA BARDITI TATATAT MARAKA NARAR NAARAN NAARAN MADARA PADA BABAARATA PATITATAD TICTGAGTOTIC TT TATTTTTTTTTTTT TTT AGAECT DAG AACT DOTG AGAAT 1000 TAAAAT 1000 TTAG COTTO AGAT COTTO AGAAAT 100 T TATADTTCOTT: AATT: AAC 6 AAC 0 0 TO TTTTATAAC 0 TOADTRAAC 0 AAAC TT6 1 AAAT TAAACTTA AACO TT DICCACCA (GGACCAC CGGAAGTAG DICAA XT ST FFF FG DICGAAA FF COT SC FGA FIDAAAAC PO FAFG GACAT CAC AADAAG PTGA BG TTA FBO PTTAAGGAATT DA FGA BG BAA BAAG BAAAAT BBO PBB BAAT FPGA BAB BAB DA BTG BFT A DITIGOTIGAA TIT BIGAA TO TOTTI BAAB DI GIT BEDI DAGDAA FEBTE BAADOD BODO FODA BEFRATO DITEATE DA DAD TIBAN BUTUNGA NGACIA NE BOAB BABAB BAADAI TAO PINGAAO TAO TAA PBABITAA DEAA DA DETICANDEAE BAAA COCUT TIT BIT DOCTAGE FA TOO DIBIP BITGO DIT DA CAA II DA DILIIGII I GII AAAA DAA BITA TOA TIDA TIDI DIDIDIA TITI TACAAAA BA BBA O TERADARAC TOCAS. AGA GA CAGA COTTUA AGA CAGAC AGACTERANT I CATTUAATACAGAGA AGA CAGATUT TORRANGAGA AGA CAGA TIPOT SAAT OCAAATA 3 TO DACA 16 TOCA POAA PSTGOTGA TATTOCA DITSATGOACIPA 3A 3 DOCOA 3A 3 3 TITOTTIP SAT TIS SICA STICATIT STAATISTIACAAAT CITTATAATATCTTA TITI IITA SAAAII ITAAAAAA DA TA DAZT SICOT DAAATIISA SAG AGE CARA ETTO TARAA O LA EGOTTET CARAGESTATIPATICOTEFICACIAGE DE COCATEFICA EA DAR ET TIPO ATOTOTETE CA TTAATTOI SCABIBBA POTOGOTTOAA BABDA STOAGIIAGGAACIG BBTOTTTGGTOAAA BOOIIIFETAATTATTBDAA TA DA SA DA SA MATA TIT 95 STIO DOTA DESTODO DAAAAA TAMBAYSTAM SAA SIGATIS SIGA DISTA DITTIDA DODATAAGA SAA AA 3 3A CEE CAHAAAANG GGTA 3CAA FATTEC FITOTA FICAAAACOT DA SAGAAGAA TA DIAAG FATAA SAATATI DITO ACTE BODA BA 1938G BATAAAG BAGACTAAAA BITTIGCTAAATCDAGTGAAAACT DAT DAAAAT BID AG AG TATOGAGA TA CORTOS AG AG T TA BABATATO PODT DOTTO ACA BODT FOT BOBAGABGTO OBDAATTTIB OTGOATATACA BBABACACAO PETGOCOTEC AGT BAA POACAG DO BOTTEGTAATAG SAT BIP I ISTGTGGGOTTTGGGTGTGTGTATTT BIP BUAF FTG I GTGAA DATAGTGA CAGA PPATCT TGAT TANTGTTTTTGATAT TTGAATTGTTTCC FGTATTTGA DAA DAATTCT TAAGA AAAAACTAGTTGTTG TTGT F F FT FT IT CA STACATAATA OSTAT OF F FTAAAAGGO FAGAAAAATATTT 566 3AA FFA T F FATTAT FTA FTF A AT FIF PAGACAA 36 PILICACE ITGETES I I NAG SCESGAGEA SAGEGGCA FAAT ITCA SCE DACE SCAA DE CLACE PIDIC AG SOF CAAGANA PT CIT COTOCCITGAGOC DOCCAAGTAGOTIGGGACTACAGAGGTGTGTG CCADDA ATAT DIGGEAATTITITEG TATTITITGGTAGAAAT GGGGTTTCACCA, SITTGGCCAGGCTGATCTTGAACTCCTGACCCCAAATGAT CCACCTGCCTTG grotico caabut so de egattada seca la la coboogtigocoggoodia pittita et et et et esca saca segtot ca CTATGC 2GTCTA 3GCT 4GTCTP4AATTCCTGG 3CTCAGAGAGATTGGGGGCTTAAAAAAAT TTTTTTTTATT TAAAAT POAT : A TGGTT GAATGCTT COAAAGT I GACTATGCCCCAGGACCTCTAAAA 3GACCTATGAAATGTTTGAAGAG CACTCA DITATATTOCA JIGUATGATATTAGTTA EGGGACTACAGAGAGATOTO SOTTGTT DO DUTGTTGATGACAGGADA TAGOCC FGCA'' GOC FGAATAATAGAATGCAGCATATGCACAGAACTTTAA GAATGAC FAA CTA CAGGACTATAAAGATCA GAAAAGAGAANT DAGT TTUAGGUTGGAGOATT IGTGGGAGGUGTTATGGAAAAACAC DAGTTAAATUT TGTUTTGAUTAT ATACET BEAACAAA BE CECTAETGBEGAAGAG BGAGCCAGGACAGTGGCC CTG CCTGATCCAA BETATCACTTTCAGCTG ATOTAT DE ATLACTANTA DE AAA I DIT NAATOTOT DOT TOATOT DAN L'EST E TE AAB TABES E E TATOAT DAN TANT E TSTATA BSAAAAAAAAAAAAATATATSTA ESST CGSTACCATCCSCAGTTTCASSCA FCCCCTESGGG FCTTSGAACCTA TODDOGAGAATGAGGA GGACTGAGTACDADTGAGTGGACCAGCAGGACCA DGAGACTDTGTCAGGAATGCCTGTGATGCA CCGGGTTCCTCTAAGTCCAGCTGGAGCAGCGTGTTCTCATGAGCATGCTAGGACAAGGAGGAAAAGATTGGAAAATATGATA ATATCA STAAAT SAGGUTCTGAATACAAU CTAAATGTTTAAGAAAAGTTG CCAGGAGAGTGATCTTCATTTACTTCAGTT TREET SAATTT IT PONCTARTATAAN GTTRUAAT SCAGTATETCAGS BETATGA IC STTTECATGAGAGNOCACSTAGG TAAANT BIACTI MOAAAACOC CHACIAAWAT BOBTITOTOTITABOCCO DAGOCCAG AAAASTTACIOOAAAAAAAAA BIBAAAAACI TOOTOCTIOAAA CATIOCITIIC AGATAAAA XAGAAATAAA CHACIOOTOCTIOOTOCTIAGA SAGAAATAAACI ATTA BA SITTIDAA IAATAAG 90°LATCATIOTOO OAGATGGOOTA DAGAAATGOOG BACTTT ('AAAATDAAATTOO OA TUTTOTOTOTOTOTOTARUGSTUATTOCACATGUSAACCA STOUCAC TUTCTOCCCACTGSCTSGGCTS TIGNAT POTTOTAGGAGGOGAGGAGACTGTCCATGCTTCCCAGACTTCACIGTTCTTACACGT (ACCTGAGGATTTGTCA AAATUCAGATTI 165 CCTGATGCAGTGGCTCCGCCCCCTAATCCCAGCACTTTGGGAGGCCTGAGGTGGAAGGACTGCTTGA HCCAAR BETROT NOT BETRETETETE DE LA TOCO NOTACTACTO GA GA COUT BAGGT GO GA GATAGO TEAGRO COGA GA GA CONSTRUCT AT A THE STATE OF A TOO A THACTORADA TOO A SECRETARIO A SERVICE AND A SERVIC

TTCAGCAG TTATT BAGCTCCTACTTTG PGCCAGG JACTGTGCTA DATA FGTGGAAGGATGAAGTC DDAATATCAG FAGGA CAN BEGUNA BAGACAAAACAGUNACTECT BETCATTATTOATCTDTATET BEAACABAACA BAIGS BURGE BOTCE ACTORATE ACACAACA BAIGS BURGE BOTCE ACTORATE ACACAACA BAIGS BURGE BOTCE ACTORATE ACACAACA BAIGA BURGE BOTCE BOTCE ACACAACA BAIGA BURGE BOTCE BOT ATTICTACADAGAT DAGAAG FOGTGGGT BAGAGTS FGCTGA FGET SCACAA DI EITETAAAT FA DIAAAAC IDATAAAC IDATCAACCID TAAACATAAAATGBBTGAARGTTACGGRATGTAAATCATABCUTBAATABAGATABTAGARBAGBRGBTBBTTBBTTB ATT BOTTY: TO AGD TO CAAT OT BOAAGT FACAGOT FIT AAT GAATAGAG FAAC FAFTT FIT DA DOTT GIT GITGE FG FG FG TITTOTOCTCOACTOTGCTAA DAGACA SCAGAGGIGA SIGA SAA BITBGAAAA TA TITBGG BI DITGAA SAGOTO I DA BGT S TEC CETTLAGITAA SOTOCA SCITOTICA SCAGACT LEGISO LIBITAGATOGA LAA SOCCA SATILIOCAA SIGIFGA CCATAAATIS OTT POTGACTIDAG DE STAGTGGAAGGA GAAACAGICA NAAA GAATIDIT SIBDA GIIGATTT GITTI DITU DA GIIGA GEA DE DATU CAG DOACTOC FISCAND FOUNDAAACTOTT ACCAA SO FISSISA DOT DAA FICA SOT FOING FOUND DIE SAA FAA FAAAAAA GAC CATTITAGA TT CIPICAGA PT TI UNTO TI TATAO PTA NO EGGAO PERE COAT PO TITA PAGA GA UTAA GIPGA TGE PAGANT E TGT CTTTAAT FFAATAAAAGATAG TA GTA GTCA CT G GCA C CAG FFA CA GCT TGC CT FTAA GA GAA GTA GFT FCA GA FA C ACCITGAAAC BETUTTECADA FOATATAT FUBETCAIAD BOLDAAAAAA DA BEGUTTUTUTE BAAAA DE FAA AAABAACCAG PAG COPTAACO POBAGAC CAAGGCCATA PGO OD GGO PAR AAG O DGAAAT GGGAAAT GGAAAT GAAAT GGAAAT GAAAT AGTATATOTO 3 3 3 1 T 3663 3 T 16 3 3AATA 196GCA DTOAA 3 D DA 3A 1 T 30 DT9A 3 T 2CAGA 10 D DA 2T D 75 3 D TOAA D 1A-6 ATO POTGAGO DIBA SAAGILIAGO L'ACCULICGGTT TOC CCAGAIT STAAAA POS SAATAATAAT LISTA DIDICICOCTI SCAG TTAGTGACAGAA TAAAAT GA GT TAATA DA TGGAA DTTAGAA TAA SA DIT DA TA DATA DTAAG 5 SAT DA STAA SI STAADA TTGTTCAGTG 3 5 3 CAAATAGGG 3A CTGATGGATT TGA 3T 5 3 SAAATA 3A 3AA TTAAT CTGACTTAAATA C 3 3AGAT PGTC Trandocangan ningrodren on anawagitingaa doa waa saka da shka nekonga gagaka ningson saka a sakaka ningson sak GGATTOTIGGS FINTA PAIDO DA BOTI BITGO POLTOCOA (AGUTAT BINBADI PEGA DAG BISCA OTTI DAG DI DITTI DE DATIGITA (STI TCATCAACTA E BAAA BAAAGAGA DTAGAATACAGOAT ET DTAA BA B B ETATCA BECETATAT FTA CAAATA ST B DATTT ACTITAGO CITA SIGNO PISTO AGIGO A PANTA ACGOTA O CA POTRES DI CITA GOTO CONTO TOTO GAGA CATO TOTO TOTO ACADA CA TGAMATGTTI CAAC FAATIMAA POTTTACATTAAMTTAT SA SGITA SGOT CITA PCACCCACACACAT CA CA SAMSAA SAAAC TATISACATIGAGGAG SITTAAGTAGOTTIGTITITAAGGITTIG DAAA SICOA STAAG DAGA DAGGGGGA DIDOA SA STTIGA SIDACTIC TGGCTCCAGABTCCATCCTCTTAATTGCCATGCTGAGCTBTCCCCTAFTGACTATTCAGTTBBCTTBAGTAACABAACABAAGG AAGAGTAGCT FAAA TAAGAAATT FATTTI TCTCTOACATTAAA FAA BAAT 196A SETAGTOGATGTA SAGCTG FSTAGTGG CCTCATAAAGTCAT DAGAGACCC PGCTTCTTTCCAATC DTTT 3 DOATGCDAT DCTGGTTCTAGT \$TACCCA FT DTCGTG GTCATGATATGGTT 30TAGGGCCCCCAGCCATCATGACCACATCTA/99CAA/STCA/GGAGTAGAAAT 3A 3GAAA/CA 3CAAAA AGANGTGCCCATIT DCCAGTGCCTTCACCTATATNATNAGGAGCGATCCCTATGGGCAGGCTAGGAGGCTAGGAGGTTTT CAGGTGGTCACACTGCCTGGAGTTCTGCCAGTAGGGAAGAAGAATGGATATTGAGAAAACAACTAA DGAATGTTTGTCT GCCACAC TGAGGAACCCATGTATGGGCTGTGCTGAAAAAGGGGGGGCCAAGGCTTGGCTACAGTGGCTACGCCTGAATCCC AGTACT1 TGGGAGGCTGAGGTGGGCCGGA1 CACTTGAGCTCCACAAGT PCGAGAC LAGCCTGGGCAA LATGGCAAAACCTCG TOTITACAAAAATADAAAAAATTAACOGGGTGTAFTGGGGFGDCTGTAGTTCCAACTGCTOGGGAAGOTGAGGTGAGGTGAG AGGATCACTTGA6005A66A6GCAGAGGTTGCAGTGAUCTGAGATCATGUDACTGCCTTCUACCCTGCATGACAGAATGA GATCCTCTCTAAAAATAGAGGGGGTACCAAGAGATUCAGGGGGGGGGTGAGGGTAGCTACTACTCTCTGTAGGAGA COTTABO TOTATABATGGAGGCCCAAAZ TGTTA UTGCCATCABABBUCABGABTCCTTTTCTBGABBCGTABCT POCTG CCCTTTCTAATCCCTATCAATCTGGTTTCTGTAGAACTGTGAC PGCTAGAAACCCCAGGCATATCTGTTCTAAGAAAAC ACTIGITITEGSTGAATTIACCAACAAAAGGGAGCATCAGAGGGATGTGAGGSAAGTCTGGAATGGTTGTATCACTAAGTGA GAGCAGCACAGATGTTTGTGGACCTATTCAGAAT YTTACAGATAAGADCNTTTTTGAAAAGTTGTTTDGAGTGCCATTTT AT SATCI TOTOTACATTITCCAADS BACK TOOCTATIC TOTAGBABSBATAGIASAAATTATTI CAA ITTTAATCAAATA TRAKAKATATTADE TIT ITTAATAAAATATA BAAAAAABATRI AAARARREAAR INAKITAAAACOAAA TOT ITTAAAATAA TO AARAAAA AARAARAAA TERANGAMATAN TITETER TANDATAN TITET TANDATAN TOTON BETAMBATAN TETET TERANAN TANDATAM TA PATTTATTAATTA TUSTUTAA YAAACTA POTCNCAATTTAGTGGCTI AAAABAAAATTTAATTAT FATGCAT STGGTA ATAATAATITTI PYTTI TYMITI MATI MAATAUTI SCIATGATGTGGTCATGATGGTGGGGGGGCCTAGCGAG TUTATTGTGGCCATSAGAATGGTTTTGCTGCAACUTGLGGTTGGCTGGGCTCAGCTAAGCAGTTTTTGCCTGGAGTCTCT "A STIGHANTGAGANACIGACIASCANITSAAITACCIGAAIGCITCCICACICAISICIGGIGICII SGGCIGASAAIAN A PA DITOTOM DAGGATGGTTOA GAADI SITTATAGTAGAGAAN GAGAGAGAGAGAGACAGGGTATATTAGCTTTTATTAGGGA GREEGESTATION ACCORDANCA DA TENERA NA CONTRECENSIONA CONTRECENSA DE LA CARROLLA CONTRECENSA DE LA CARROLLA CAR CAA GETTOTA BAGGAS (ACA) LUTT FIGGUCATTITCAGAAATACAATOTGCTACAGTCCAGAAGCATCTGTTTGCCTTA 

GTAGCCTGUCAATUTTATAAACTTGGGCCTTGAGCTCATCUTGAAACTGATCTTATTTTACACATGGTGGTAATTGTAAC TOTTASTTAABAAGCAATAAAAAAATAATAAGSSSTGATATAGATTCTCAGGATTCAAAGGCCATACGCCTTCT TOAA NATHINGS PTAAGGGAG PTO TTUAUA PTO FORGOT PAAGTOAAGTOCT TO TATAGOAGGOAATTOCATG AT WANGET NEW STREETAAR FETAETTEIR COTA WECARGTARDER FTOOTTGCCACAT ROTAT COTOTTCCTCTTTGACT UTWA TOOTO AA AATGTGITOAG PGTTAAGAGGG PTTGATAACAA PGTCTGGGTATCTOOATAAO PTAGTCCAAATCTGUT TAT CHOOT UT AGGTAACA TACAGCALTA ITO IGTODOTI IAA BETTIAT IGATTI GAAG PPOCOTTGEGTA HAA SAG AGC/AAAACAC DAGGTTTAA DG BTOOA TAABOOAGATA AC DA 13A BTT DTAAA BA FTTT DIPUT BIDTTAA I STITOT CCART I I I CICAT SAGAAGA DI SGATATA POTO IGTI SI I SI I DA FIA SAGBATITA FA FOI DIPETI DAA DIOFA SAAAA TTAC PAGOT STIFATOTO FT FAAA FATT STIFFOODTOTOATFIT DOAFFOOD FIGGAGAFFOTA FFAGAT GFGGGIFGGAT CTIC NEFTATAT OTOTAL ET PTOTEAAC CAAPTEETTCA FA FET OTEFA PET ETAAAT OFCA FESGT SATEFOCI IGSAT OTO:: PATACA PITACTE OTOCAA TTAT ET PRAG POTA PITAT PCAA DOT FTAA DOTTT DOA PEGA ETTT TET PTOPOLITE AC CAACHGOATEFTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTGAGACAAGGTCTGGTTGTGTTACTCACCCAGGCEGAAGIGCAG BGCA I JATOTT BGOTOA DI BOAAGOTO CANO CODOA JAUTUAA SO DATOITIC DA GOI DAGOI PAGATA FOI BGGAA TGC A PERCONDIGORACI DE A SOTA ATT TETA PA PETET ER SA SA PER SOTE ET TEGE DA TETEGO DA SE ETA SEC TT I A I CITTGIRGAGOTOA SGIDAAITO DAO ICACCITIA SOT PODIDAAA SI SIDTIS SBATTA DAGSIDAT SAGGCA DIDADA DODAG CO LA PERACESCATETT FO FETE POTA GAAGT PO PST PTO DEC DE PTO PAACT ET DOUGS JOTOF LE FEFE LA PETE CO DE ATETA ETEGTETT FA FICATIG SAT ETEATA DOT FEFATETA FA PE PECE E ETTET FET DEA SETAJA EGA FFA DE FAG GA I TIL PATACATTTTAT TAGCT OT STA LATTAA OTT LAGTTTTTTA CA FLEST LEFAT LATOTC PAATTCTTA FLESSA STA OTCA POTTTGGOGAGAG IGGOPOATAT BOOCTGATTGAGAA POT BIPTO I PODAGAACAAC I POATGTTG BITT BBIPTAAGAACAAC I TOC TAGCAATTTCAGTAATCTTPGGACT EGUTUT FAAG FTAT FUT DUCADCTTGAAGCADA FACA ETCAA EGAATG FA CAT TTGTAACTTATACTATGIGTGGAA ECUTAGAAT PICCATTT DICAATATGACTT POT PITODATAAATGECOO CTGA LAGCAASTTTTCA TTOTGGC FCT TTGGACATOT FGCA BOATTTT FCTAAACCCTCT FTCATAGAT BGGATA BOTTT TCAA PSCTCTGBACGATATGCABTGG BATATCBABAATCTBBCTTTF BCCBTGCABGGBBAATCACTAATCACTAATCT GAGO FITGAAGOCCCTT COCCIDCA SOC LATIAGA COTA FACA CAGII COTAAAA TICTTAATGG SCA STOCTACTISA CAGICTG CCTT /FCACCAGCTCCT 3TGATCAFTCTAGCTT TGAF FFFFFCUCTTFCTCTTFT CT999CACCTGGTG CTCCCCCTTFTCTCTTTFTC AACAAGTTTTTGCTGTG CTTTCCTAGCACTTCCATATGTACGTA 3 CA 3 3AG 3AGGCTGAATGCCATCTG CTCT 3 FCT 3CC ATET I SCTGTAAATCACAGTGAGT TIT I TOTAASTGTAACAGOT I DCATTOTGCAGTGTGT TIT BAGTO IGACTOTTAGA TOCATICACTTCCTCACA FIGTTATCTT SGCCAAGCAFCCTAACATITTTGAGATTTCAGAAACAAAATAGAGATAAATSCT GACTITTTAGGGTTGTT EGGAAAATTAAACAGATAA DECATGTAAAA DITCTTGAAACTTCTTCTGGCACATA ECAASTC AGA GUT TOT CAATTOT GEOTAGETTGG ET", CAGTAT DOOCTEGE DAA DITTITTAACATTAGACATTTCTEGEC DAGAAGO AATG DOCCACACTTGTA STOCCAGCTA DOCAGGAGGTGAGGTA SEA SEATCACTGGGGCCCAG SAGGTCGAA ETTGCC ATEM CTGTGATGATGCCACTGCACTCCACCCTGGGTGATAGAGTGAGCGCGTCTCAAAAAATAATAAAATAAGGTAAA AAA AMAAAACAAACA SAGATITTOTG SGT GCTACCCCTCAGCA STTA FGA FTCATTAAGTCTGAGATAGATCCCCAGAAA TOTIGA ATTITIGAAAAGCI TODACAGGI GATE COGATA I GCCACOCA STI I I IGAAAACGI TOTITAAN STIATI TOGAAAAA I CG TAAG: AATTTCATTGTTOTCAGATTTCIAAGCACTTCAAAGTCATTTTTCTCCCCACACTGATATTTCATCTCAGATG TGCTHAAGCTGTAGAGAAAAACAACGTCTCACACGGCAGACCAGA BBBAATATCAGCAGGAACTCAAAAAAGAACTATA ACANOCTAAAAGAGAACCTEAGGCCAATGATCGAGGGGAAAATTOCA JAACTGTACAAGCCAATATTCAGAGTTGAGAGT CAAAAGAGGTAAGAACAGGGCAGAGGA GUUCTUUTTOUTGTGGGATAAAGAGCAGCGCATGGGGCCTAGCACCTTGGG FOA TRITOTO AGENGAGAS AGENTALA ACOTO SA ABARGA A SA ABARGA A SA CARTA PARA GARAGA SA CARTA CA CARTA CA CARTA CA CA ATT TO TO SUCTED BEFORE GEORGEST OF TRUTCET TRACECTO FOR ASACACCT TEGET FOR FOR TEGET ASACASCE FAI TO COMO ADOTO SAATICATAS COTATATI TOTTITTATITISTI ITA SE ILBOTTITATAT SITTECE PTOGO ACAGIGITANAA SENT ON AGAINSTIT NA STIATTATTI RETGA STIGI DCA 16AC DA 1 EFCCATTICIACI GGUIGATOCACO NCANCO CITTURIAAA AGGOTA ACIGAT STITICE EUROSCOTOSTA AGGOTOTO DO CONTOCICO NICOCUSTURA ELICARE SAGT OTT CCACAGATCTAGTTTCAGGAAATGTGAAACCCAGTTGTCACAGAGGCAGCTAAGAAAAGCCATCTTCATTCGT BGAGA OTGTGGGCCT SCAACCUTGGAGAAAGACTTGCTGGTACTTAAAAAATGGGGACATTTGCCACCAGGACIGACTGC ACACTOCCTGATCAGCCAGCACTCTSUAAGCTTTSGGATCCCAGGAACCATGGAATTATTCCCAAAATGGACTCTGACCAS TIT MAUT MITTATA SWAAR WA KONMAAAMIT KIA KOARTA MAAAMATITTOAATAAAT ITA MAA KIRAAR RUMMM

TOOGATAATGOTTTGCTTTTTTCTTATGTCAUTCTTGTGTACTATCTATTTTTCTCCTCTCTGGGACCAAGTTTCTTTT TAATATGATI OTGAGOTTGAGT BATAATAAAGATGTAATAAGAATTGGAAGGTAAATGTTTC GOTII IGGAAGTUATGGTT TRIFFTTTHI I TUATGADGTACTGCCTGCCAATGTTITGTAAGGCACTICA BABAGAGACAGAI SCAICATCCTGGCC I JOATOAAAT AACACTATOCAAGGTOGOACC TUTTOT BOAATGITTAACOO I BOIAGTAA IGAAGGATGACTTAGTTOGG CTTACCAGCITAAGTGCTAAACTTTTTATTITITAGGTATTTGGGGAAGAACTCTTTTFAAAGTATACACCTAACTGCTI TTTAAAATGAGTACACATGACATACTTTAATTCCATATGTATTCCCCTACTCTTTGGGAGACACTGTGTGAGACCAAGG TCAAAAAACCIGGTCACCGCCCTCCAAATCCTCTCCGCTTCCCCTGAGGAAGAICAIATACCIGTGTGTAGTAGCCACAGTACA AAACAGACTA CAACACAGCCCATAGCATGTAAC DTTT FOOTGACTAACTCAA 9GATAGG DDAACACDTATGGTATTAGAT TOTGOCCTAFAACAATAAGAGTTAGATGCTAA% ITATATAGTCCTGGACCTTAACTCAAA IAGCCAGAATAGCCCTAGTA ACCTAGAATAT TOOTGATTAAATATOOCCTOGT IT TAGATACOTGTPSTOCATTIGSSITTIG ITTTTACAGTCTCTTTT GTACCACAGT@GATACATTTGCTTCATGAGT@CAGGAGCGATGTTCACTGCTBCATTCTAGCCCTAGCCCTGCAACAAA CACACAAAACATACCCAATAAATATTTGTTSATTCACTAAATGAATGAATGATGAGTAG 3 DOTGCTTC TAGAAGTGCACT GCCAATAAGAA TGTAATGCAAGCCACATATATAATITTAAAAAATTCCAGUAGUUATATIAAAAATAATAATAATAGGCCAAGT GCAGTGGCTCATACATGTAATACCAGCAGTTTGGAAGACCAAGGTGGGCAGATCACTTGAGCCCAGGAGTTTGAGACCAG COTGGGCAACATGGCTAAACCCCATCTCTACCAAAAAGATATAAAAAATTAACCAAGTGIGGTGGCATGTGCCTGTAGT OCCAGOTACT CIGGGAGGOTAAGGTGOGAGGATCIGOTTGAGOOCAGAAGGTTGAGGOTGGAGTGAGGOATGATCATCATCAC TGCAUTUTAS COTGGGTGACAGAGTGAGACCOTGTCTCAAAAAATAATCACCATCATAAAAAAGAAACCAGCAGAAAATTAAC TTTACTAGTATATTTAACCCAATATATAAAATATTATTTCAATATGCTTCCCACTATAAAAAATTATTTACAGTCTTT TATTTCCATATTAAGTCTTTAAAAATCTGATGUGTAGTTTGTACTTACAGCACGTTGCAGTTAGGACTGGCCACATTTTA AGTGCACAGTAGCCACAGGGGGCCACTGGCTACCATATTGGATAGTGCCATTCTAGAAGCTTCTAGACTTTTTCAACTGGA TGCCTCTGATTTGTGGACTCAGAATACAGATAACCAAAGAAGTGGGACTAGTGTCTGAAGTAAGAATGACAGGGTATGAT TGAGAGCCCCATGAGCTTACCTAGGAGAGAAACTTGTGGGGTTGCAGAATAAGGATTTGTCAATATGCCTTTAGCTGTT CACACTATTICTGGGCCAACTCCCAGATCATTICTCAACTCCAGATAGTTAAGTGGGGAGCATGGCTGCACTTTTAAAG TGATGGCACAAAAAAGATATTGAACGTTGGTCCTCTGATTATATTTCTAAATATGCAGTTAGAAAAGAGGCCTTTTAA GAATCCCTAAGAGTAAAGCAAATTAGTATCTTTGT FTCCTGAAAATTAGAGAAACTTGA FATGCCATGATAGCCCTCTTC GGTCAAGGGTGCAGTTGTCACTATCACATAAGAATCTCATAAAAATTAAAACATGAATATACTGCACAGACCTGATTGGGT ACAAACAAACAAACAAAATTTAGAGTTGTCATTGGTAATTGTGGTTGCAAGTATGCTTTCAAAGACCAAAGATTTTGTT TTGCTTTGAATGTAATTTTTTTTTTTTTTTTTTTTTAATACGGAGTCTCACTCTTTTGCCCAGGCTGGAGTCCATTGGCAC CATCTCAGCTCACTGCAACCTCCACCTCCGTGGTTCAAGCAATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAG GCGTCCACCACCACGCTGACTAATTTTTGTATTTTTAGTAGAGATGGGGTTTTACCATGTTGGCCAAGCTGGTCTCAAA TTCCTGACCTCAGGTGATCCACCTGCCTCTGCCTCCCAAAGTGCTG

GGAACAATTTDOTGTGATGTGTATGGGTGCCCTAAAGTGTTGGCTGAGCATTGTCCACATGGGTG ATSCAAAGGATCACTGAACTAGGAGCAGTTGGGAAAAAATACAATCATTGGGAATICCTGTAGC ATO BANTSTORTA CASSSAUGTAGAASTATTOATACAACAGTTO FOTGGTGTTO FOTGTTGTA JUAACUAGTCAGCCAAAAGGGTTCAGUTGGTTGAAATGAGAATGGCTGGATCAAAATGGCAGCT CATSATTTAAASGAITCTAGTCAGATACCAGACATCCTCAGATAGAGAAAACTCTGAATGGCTG GGGGGAGAAGGAGTCAAATGCCCTGGATCTTTTTCTTGGGCCTCAAAGTCCTCCTTCTGTCATCA TCCTTCCAGTATTG36CAGGACCTGACTGCAGGCATCAT66CCTCTGT3AACTTC1CAAG9GTA TGTATTATCTGACAAAAACTACGATGTCCACTAACAGGCCACTGAAAGGTATCTTAGICAGTTC TGCTCATTGCCCAGCCAAGGCCTACSTTTTATAACATGATATCAAAGATTGCATCTAAAATTGT GATGATTTCCTAAAATAATCATIICATTTAGATTTTCTATTTTAATCCAAGGTAITTTCAGC SUANATAAGGAAACAGTTTACTC1 CCCACCAAACCTTGGCCAGTA CCA 10GACAGAGAGAATAAGT ACCTCTGGCTTCCCCTCTCCAACTAGTAAGTATGAGTTCCAGGTTTACTTAGCGATTGGTCA AGTSCAAAAGTGCCCAGGGTATGTGTTTGCCTCCTGTTCCTTAGATCTTCCTACCATCACCATCACCTCA CATTCTCCAGTCACCAGATCCTAACTCTGTGACTGTGTCTGGACATCAGACAATATCCCTCTCT CTCTCTGCCAACCGGTACTTAGGGTACATAATAGAACCTCTGGGAGCTGTGGTTFTGATGTCTC TAGACTAGGTGGGCTTCCAGGTGACTCAGTCTCATCCAAATTATGGTTCATATTTGGGGGAGAA TCTGAAATGCCAAGTTACAGAQQTCCTTTTTGTAAAATAATTTTCTTGTAGTATAATTACAT ATAATAAAATTCACACATTTTAGGTGTACAATTTGGTGAACTTGG ECAACTTAGAGTCACTTAA AATOTOCTOTOCOCAGGOOACAGOOTOCAACTCAOGCAATOTOTGAOFOACTTOTGTCAGCATA ATTITGCTCTATCTGGAGCTTCATATCCTGTTACAGTATGTACAAACCTTCTTTTTTTGAGACA GGGTGTCAGTCTGTCACCCAGCCTGGAGTACAGAGGTGTGATCTCAGCICACTGCAAICTCAAC CICCCAGGATCAGATSATTCTCCTCCCCACCTCATCCTCCCAAGTAGCCGGGACTACAGGCGCAT GCCACCACACCTGGCTAATTTTTGTACTTTTTGTAGAGACAGGGGGTCTCTCGCTATGTTGCCCAGG CTGSTCTTGAACTCCTGSSCTCAAGCGATCCTCCTGCCTCAGCCTDCCAAAGTGCTGSGATTAC ACTGAGCCACTGCACCTGGCCCTAAACCTTCATTTTTAAAACACATTTCCTCTTAAATTGAAGA TTGCCTACATTTTTATATCAATGCCAATTGTTGAGTGTGCCTATATGTGTTATATTATTATTTTGAGC ACTAAATGCCAGATGTGTGCCAAGTGAGATAAATCTGACAAATGA JATGGTTTGTAAAACCAGC AGTIGAATA ITCACTTCCTCTGTGAGAGAGCTCCAGCCCTCCTGTA CTCACTTCCTCA CACAGCA CAGCAGCACTCTTGCTGGTTCTGCTGCTTATCTTGAAGAGGTTAGGTTACTTTTIGTICTACT TATTACTTOGAAAOCACTTCTGCCTTAGAAATTTTGTAAOCTTCCGCTTCCCGGTAACCG CCATTTGTCTCCTGTAACAATTTACGCGCCGTGTAACTGTGAATCTTT

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hCLASP4
LCLASP5
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hCLASP3
                          -----MAERRAFAÇKISRTVAAEVRKQISGQYSGSPQLLKNLNIVG 41
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hclaspy
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                          MSFRGKVFKREPSEFWEKRRTVRRVIQEEFHRFSSQEKPELLEPLD/ETVIEELEKT/EN 60
hCLASP1
nulla:FF4
                          -----STYPHDAEKRAQSLEVRECIKTYSTDWHYMN:K 53
HCLASP5
                          N------SHHTTVPLTEAMOPMDLEDYLITHPLAMDSGPLEDLESTP 85
HCLASE?
                          ----TVPAKAEEEAQSDFVTECIETYNS DWHDVN: K 55
hCLACP2
                          G-----VPLTE/VEPLOFEDVLLSRPPDAEPGELEDIVERP 79
hCLA3P7
hCLASP1
                         DPLQDLLFFPSDDFSAATVSWDIRTLYSTVPEDAEHKAENLLVEEACKFYS®QWHYYYYK 1100
                          YEDFSGDFRMLPCKSLRPEKIPNHVFEIDEDCSEDED-----S38108QEGGVIKQG-105
hCLASE 4
                          DDDDDDVVFTPKECRTLQF-SLPEECVELDPHVS -------DCVQTYIELW... 63
hCLASE 5
                          PDDIEVVYSPEDCRTINS -AMPEE-SEMDPHVR------DGIESYTEDWAI 126
hCLAEF3
                          YEDYSGEFRQIPNKYVELDELPVHVYEVDEEVDEDED-----AASIGSGEGGITEHG IG
hCLA1F2
                         ADDLELLLQPRECRTTHP-GIPKD-EKLDAQVR------AAVEMYIFDWUI 121
hCLAIF7
hCLA:F1
                          TEQYSGDIRQLPRAEYEPEKLPSHSFEIDHEDADKDEDTTSHSSSKGGGGGGGGGGFGVFF G 180
                                                         :* . ::* .
                          :: .
hCLASF4
                         WLHEADVNSTIT--YTHEVEFERYFYLTQLEDGSYTLDSYEDEEDSKESK-GCTYLDACT 161
                         VNEKNOGSPEIC--GFEETGSEEDFHET-LEEQTFESETLEGSEPAAQA--GFEELDMIC 118
hCLAIF5
                         VIRKYHKLGTGF--NPNTLDLQKERQKG-LSLQVFESDEAFDGMSYQDDQDDIFFLSM*1 185
hCLAJF3
                          WLYEGNMISAIS--YTHESFEEFFEHLIQLGIGS YNLIFYEDEELSKEFK-GSIFLICOM 164
                          \texttt{VHERYQYLSAAY} + \texttt{SPUTTDTQRERQKG-LPFQVFEQDASGDEESGPEDSNDSEEGS} (\texttt{R.P.} \texttt{179}) \\
hCLASP7
hCLASP1
                         WLYKGNENSTVNNTYTTRSEKKRYFQLTQLPLNSYIMNEYFDERISKEEK-GCIFLDGCT 239
                         DVVQCPKMRRHAFE.RILDRYSHYLAAETEQEMEEWLITLKKIIQINTDSLVQERRETTE 221
hCLASP4
hCLA3P5
                         DVSGKGFVTACDFCLE: LQFDKRLENLLQGVSAEDFEKQNEEARETH-----FQAE 169
                          DDTPRGSWACSIFDLELSLIPDALLPNLLDRTPNEEIDRQNDDQRKSN-----RHKE 234
hCLASP3
hCLA3P2
                         GUYQNNKYRRFAFELKMODKSSYLLAADSEYENEEWITILNKILQLN----FEAAMQEK 219
hCLASFT
                         EDTPRSSGASSIFDLELLAADSLLPSLLERAAPEDVDRRNETLRRQH-----RPPA 230
                         GVVQNNRLRKYAFELFMMDLTYFVLAAETESDMDEWIHTLNRILQISPEGPLQGRESTEL 299
                         TAQDDETSS----QURAENIMASLERSMHPELMKYGPETEQLNKLSEGDGRQNLESEDSD 278
hCLASP4
1. "LAHES
                          LFALYFOUL----ELIAVEIRFURECEREHLG-----N-----IIVKLUTIFFRIE 20
DOTAME?
                          LEALERS G----E EL LEELOVEC LE KEHEG------[PLLVKOLSLEED D. 2000
EMBAMES
                         FINGUEST ----FLORISH OF STORY OF ELLEVOAS SAFIK---LECEPTAR LEY LUTI.
                          1. 11.20.1911
                          TO THE DUTING THE PROPERTY OF THE PROPERTY OF THE TRANSPORT OF THE SAME IN LEGISLES AND A SECOND OF THE PROPERTY OF THE PROPER
BULASE4
                         VGRLDFS----GIELDIEP-FEEKJNKRFLVNCHDLTFNILGQIGDNAKGPPTNVEPFFI 535
                         IEPLFAS----IALLDYKERKKISENFHODIN: DQFKGFLRAHTPSVAAGSQARSAVFSW 268
hCLASP5
holase:
                         IEFIFAS----LALEDYKERKFISENFYFDLNSEQMKGLLBPHYPPAAITTLARSAIFSI 330
                         A_FIRED----.ABBEVEC-FEEKFRERILVECNELUFNIQUOVAENEEGETINVEBEEV 31
HOLAUPE
hdlaspy
                         IEFIEG!----IVINOABERREIGENEABLINGDQWROTTEVHOATHEVICATIVEGYTECAT.
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E. MARPA
                 NUALFOVENNOKICALFHULLNEFSVREMLWGSSTQLASDGSP---KGSSPESYIHGIAE 390
                 TYPSSDIVINVKIEKVLQQGD----IGD (AMPYTVIKE)(DG-----GRSHE-MIEKLAL) 317
hCLASF5
holasp?
                 TKPSQCMALVIKLEKULQQQQ----IGE MARKMIFKENDA-+---TKNKE-ALEKLKS (182
                 TUSUFDIKYNRKISADFHYDLNHFSYPQMLATISPALMYGS-----GQSKSVLKGILHE 381
HOLASFO
ROLASFT
                  TYPSFD1F1V1K1EKTLQQS1----.SE XXEPYMTLKE TDJ-----ARMYE-MLEKLRI.
holase1
                 S/ALMDLADSREISADEHUDINHAAYRQNILGASWALENGNIDTITPRQSEEPHIKGLPE 479
hCLASP4
                 CQURUIQQGIFSUUNPHPRIFLMARIERU/LQGNITHCARPRIRMSDPMRTAQKMHRTAKQ 450
B.M.ASPS
                 QAESPOJA----LISK/RMPFANAPISLASFFWOTLERE/TDVDSVVGR PVGERRTLA 372
hCLASP3
                 QADQFCQH----LGKERMPFAWTATHUMNIWSSAGSLERDSTEVEISTGERKERWBERE 437
hCLASP2
                 AANQYPKJG1FSVJCPHPDIFLMARIEK/LQG31THCAHPYMKSGDSSKMAQKULKNAKQ 441
                 AAEQFC PR----- DGR /RIPFAW PAVHLAN IM SAAGQLDRUSD----SEG: REPAWTDRE 129
hCLASP7
hCLASP1
                 EWLKFPK JAVESV ENPHSEIVLVARIEKVLMSHIASGALPYTENPDSNEVAQKILKSSEQ 339
                 VOSRIBJERMETAJAARETERDOOGSLOODGEFBELYKIDESKISSEDIGELIE EYKEPE
hCLASP4
                                                                                   510
                 Q3RRLSHALSLEENGYGONFKT.----TLSYSOFFKYE 3DELS DEDLFY FLADYHESS
hCLASP5
                 NGS IVGRES LEET IGGDOMONLTERE PATELT (INFFRUE GDELS DEDIMEFLADMES ES
ACQRIG ) BND PAWAARTIERING ONLIGHNAL DAIMR QUINKLENDDRIG BLADFRE PE
hCLASP3
                                                                                   496
hCLA3P2
                                                                                   501
                 ---RRGPQ--DEAUSGDDACS FSGFE-PATLOWINFFKQEABELSDEDLFYFLADMLEPS 483
hCLASP7
                 FCSKDGARRAFAMAVRSMFFDNQGNVDRDSRFSPLFRQEESFISTEDLWLWFDYRFAD 599
hCLA3P1
                                                    --KTHLQ11PG_LN1TYEC/FYDLCNC1TSSY'PLKPFE-FNCQNITYEYEEFYPEMTKY 567
hCLA3P4
hCLA:P5
                 SLQREMENTIPGLIBLE I STAFET INCCLUPENDEVKPFF-ENFTFEHKETLEFF-TFEM 484
                 SMURRIDGETTA QUEIDISPAPENTHY CHIPPLIQVKLY: -0SEMPFTBEILEFT --ASEM >53
hCLA:P3
hCLA3P2
                 K-MARLPULLGULDITIDIP/SSDFPNYVNSSYIPTKQFETOSKTFITFEVLEFVPCIEKH 560
hCLA:P7
                 SILRELAS VTADAS IDISPAPENS RECLSPELLHIKPYE-DERGEFTHEILEFF--ASEV 540
                 E-ISEMUTIPS LUIANDIMPLEHANOVISSELPVKPEMMAQTELTVEVEEFNYDSIKY 558
hCLASP1
                 CMPF1:.PNEL:M.PIQLEMDSQETFAFARNIAMCMEPEDSDESIASALF:IYQEMALSM 627
hCLA3P4
hCLA3P5
                 YMPHIMENIDEM. PÇELMEVN--ELASARNITLE IQFNOG-EDASNAMEMIFGERSOPE 541
                 YMPNITIE NIZETEPÇELEPAN--KÇGEARNITIZ VQFMYG-EDESNAMEMIFCE.SECSE 610
hCLA3P3
                 TOPYTO: THE NHLE VERKYLEYDS QUEERAFARNIA ICIEFUDE DEELS QPLECIYOR HOURV 620
hCLAHP2
hCLASP7
                 YAPETSYFNIAYYYPESLYFSS--KGGSYRNLAYEVQYMTG-EDPSQALPYIFGKSSCSE 597
hCLASP1
                 CRPYFYYENQIYIYPEHLEYDSQECFNEARNITZCIEFKNSDEESAFPLECIYGEHEGPL 718
                                                ***::: ::: . *. :..: *:*:
ECLASE4
                 FITNAMAN VEHHNONFEFYDEIKIELPIHLHOEHHLLFTFYHMSCEINTEGTTEEQUTME 687
hCLASP5
                 FLQEVYTAVTYHNKSEDFYBEMKILLPAKLTVDHHLLFTFYHISOQC-----FCGASME 595
                 FSKEAMTAAVVEHERSEDEHEETKMELPATILTERHRALIETEVHMSCOR -----EGNTELE 664
holade3
EL TLABEC
                 FORS ANAAULHEBOMEREYOR KILLEO, LELEHBULLI MEDBUSODASSE STEEROV
E. T.A. 1811
                 ETRE GOTE WORDED E DE YEER KUI DE KOME DIE HELDEMEMSOOF ----FERDIA
n mami
                        PAVLEED, NEDESLEMETE LETÇLE E EBELLESEMETTOLINARA KARREEZ E - 70%
                           TPVGFAVVELLKI GET I TERQQLEN SANLPROS MILNDARSRRQONVT I KUVDCAKELLK. 747
1. 1.5.144
                 TILIGYSWIPILINERIQTGSYCIPVALEFIPPNYSMHSAEKVPLQNFPIKWAEGHKGVFN 655
hCLASE5
hCLASP3
                 TPVGYTNIPMLQNGRIKTGQFCLPVGLERPPQAYSVLSPEVP---LIGMKWVDNHKGVFN 721
ECLASE2
                 TQVGYSNLPLLKDGEVVTSEQHIPVSANLPSGHLGYQELGMGRHYGPELKVVDGGKPLLK 740
                 TEMBETWIPLICHBELFTBRECLEVOVDCPPPSYSULTEDVA-++LPOMRWVDGHKGYFS 70°
TOMMYAWOETMEHO, TAMIEYNTETA TODEENYOSE, DOASOFHORDIEWVLOSEPLEE - 53°
hCLASE?
Emanii
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holasta
                                       -----GSKEMPGELIKYLKOLHAM 794
              FESHLESTIYTQD1HVHEFFHHJQLIQS-
              TEVQAYSSVHTQDNHLEKFFTLCHSLESQVTFPTRVLDQKISEMALEHELKLSITCLNS : 715
HCLASPE
              UEVVAUSSIHTQDPYLDKFFALUNALDER-LFFVRIGDMRIMEMNLENELKSSIBALNSB 760
LCLASES
              ISTHLUSTYYTQDQHLHNFFQYCQKTES------GAQALGNELYKYLKSLHAM 787
hCLASP1
holksp7
              VELTATSSTHPQDPYLDRFFTLVHVLEEG-AFPFPLKDTTLSEGWYEGELRASIAALRLA 767
              VSTFVVSTUNTQDPHVNAFFQECQKREK|-------MUQSPTSNF1ESCKWLLDVE 887
nCLA3P1
hCLASP4
              EIQVMIQFLPV.LMQLFk------------------VLTNMTH------EDDVP 824
              RIEPLYLELHLYLERLEPLSYQPMVIAGQTANESQFAFE WYAIANSLHN: KDL BEDQEB 775
hCLASP5
hCL43P3
              QIEPZARFLHILLI ELI<mark>bla, rppviaggianloga besamasi mruhknie</mark>guhdgh b. 840
ECLASPI
             SHEPLMAFSHHULLKUM LLVIRPPIISQQIVNLGRGAFEAMAHVVSLVHRSLEAAQDARG 327
nCL33F7
              KUHAIMSFUPIILNQDFK-----FDEIT 316
hCLASP1
              hCLA3P4
             \tt RNCLLASYMYMFELPEVQRDVPKSGAPTALLDPRSYHT/GRTSAAAVSSLLLQAEMMS.I-335
hCLA3P5
              RNSLLASYTHYVFELPNTYPNSSSPG-PGGLGGSVHYATMARSAVEPASLNINE DECLED 399
hCLA3P3
             VNVTRV-ILHVVAQCHEEGLES------hlkS(VE:A-----PAEPI 352
hCLASP2
             HCPQLAAYMHYAFELPGTEPSLPDGAPF----YTVQAATLAEGSGEPASLYLAE (ESIS) 383
hCLA3P7
hCLA3P1
             TTYTRY-LPDIYAKCHEEQLOH------SVQSTIKEY-----FXTEAC 052
hOLA3P4
             hCLASP5
             {\tt SNPDICGTPTSPDDEVRSIIGSEGLDRSNSWYNTGGPKAAPWGSNPSPSAESTQAMDECC-} 359
hCLA3P3
             bOLASP2
             hCLA3P7
HCLASPE
             ------WFFFEIIAESINKLLKYS------WFFFEIIAESM 50°
hCLASP4
                   -----APRPASEKHFREELALQ-------MVSTGNYESN 910
hCLA3P5
             {\tt NRMSSHTETSSFLQTLTGRLPTKKLFHEELALQWYVCSGTYRESALQQAWFFFELMYREM-1019}
hCLASP3
                       -----WFFFD WILSM 399
hCLASP2
             ------WVVSSSAVREAILQHA------WFFFQLMVFSM 942
hCLASP7
             -----WFFALILKSM 995
hCTA3P1
                   Cacheri<u>n Cl</u>eavage
             ATYLLEENFIKLERGOFFPETYFHVLHSLLLATIPHTTIRYAEIPDE---SRNVLYCLAS >64
hCLA3P4
hCLASP5
             AQHVHNMDFRDSEKRTEFSDRFMDDITTIVNVYTSEIAALINKPQKENEQAEKMXISLAF 970
             THELYFNOR LEAFEROF FREEFINDS LAALMST LASDING PROKOTEM---VERLITS LAF (1874)
HCLASPE
             ACHINEMSEARITEMOEEDVOLEHVVELANNINGERISCREPAREVEHVELING ROMANEVEHVELING ROMAN BUNVAL ROMA
             ALHILLOJE LOTIERKIE PEGRPLOGITALUGOVOLEVITRUE KOVEL---AEHLMANIAE 999
ALHILIONELLE PEGEPERETINFILMI UMVIGLEVIRVUETALEE---TBEAUHOVAE 108.
HUMBER (
             FLUROUTEMBEGETENTINDYISSESPEDE----KULARYREEFLOTIONHEHVIPLNL 1000
h01.4314
             FLYDALSIMDRGFVFM IRHYOSQUSAKLSNL---PTLISMRLEFLRIDOSHEHYLNUNL 1027
HOLASP5
             FINDLUSUNDEGEVECTIKSCYKQVSSKLYSLENESVLVSLELDELRITCSHEHYVTINL
ACLASES.
             FIRSOFTEMORGEVE<mark>RQINDY</mark>ISOFARGDE----KTLFEYRFEFLFVVONHERYIPINI
BOLLASFI
             FISPILSIA DEGEVECI VRAHYPQVATRIQOSENPANI LTIEMETTRI MOSHEHUVTINIA
FIKE TETENIS SULEKNONDELIMEN, HI-----BTIOLSKET FIGEVONHEHFIELDI.
BOLAGIC
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PMAFAKFKLQR-------VQDS--NLEVSLSDEYCKHHFLMGILLRETSI 1060
nCLASF4
                          FFMNADTAPTSF--OFSISSONSCSCSSFQDQXTASMTTLISEYRQQXFLTGLLFTELAA 1085
holasp5
                          FOSTLITEPASPY ESVSSATS CESGESTNYQDQRIANMEL SVPFRQQRYLAGIYLTELAV 1196
PMPFSKGRIQF------YQDL-QLDVSLIDEFORN (FLYGLLIRE GT 1052
RCLASER
HOLASFO
                          FUCPLSPPASPSPSVSSTTSQSSTFSSQAPDPHVTSMHELSGPFRQQHFLAGILLTELAL 1119
HCLAPP7
                          FIRSANIPOPLIP-----SES--+-TQELHA. DMPENSVINEFOREHFLIGILLREVGF 1157
                          ALQDN----YEIRYTMISVIENLLIKHAFDTRYQHKNQQAKIAQLYLXIVELLLENIQRL 1116
hCLASP4
BOLADES
                          ALDAEGEGISKUQBKAVSAIHSLLSSHDLDPRCVKPETEVKIAALYLELVGIILDALP-- 1143
                          ILDPDAEGLE LEKKTIMMVHNLLSSHDSDPRYSDPQTFARVAMLYDPDIGIIMETYP-- 1254
hCLASP3
                          ALQEFR----DVKLMAISVLKNILLIKHSFDDRYASRSHQAFJATLYLELFGLLTENVDRI 1.08
hCLASP2
                          ALEPEAEGAFULHKKAISAVHSLLCGHDTDPRYAEATVFARVAELYLPIJA IARDTLP-- 1170
hCL45P7
                                            VEHLALAVLENIMAKHSEDOR: REPERÇAÇIASIYMUNY MILLENITEI 1818
hCLASP1
                          ALQEDQ----D
                          AGRDTLYSCA-----AMPN-S----AMRDEFPCGETSPANFULLETDKDTAEGS 1:60
hCLASP4
                                        hCLASP5
                          -----DETECHNQEGERICIATIO-- 1276
hCLASP3
hCLASP2
                          NURDVSPFPVNAGMT KOESLALPA-VNFLYTFQEGSTLDUSLHEDLUGALSGIASFETT 1160
                          -----DYAEGPGQALFILASMLDEDTE 1201
hCLASF7
                          YERDLYPETYNICHQ BRODISTNGGFQSQIATKHANSVOISFBRDVIMB LAAFSSLAIS 1273
hCLASP1
hCLASP4
                          FQ-NGEGIKREDSEG.LIPEGATGFPDQGNTGEN----TEQSSTE.(V:QYNELFQYE 1212
                          ------EEQEGAGAINQNVALAIAGNMFNIHT------ GIVLSS HYYYQYNMLDADT 1208
hCLASP5
                          -----POS FILTS TROPORTE FRAME 1324
hCLASP3
                          STPMINSVENADERG. LISTDSGNSLPEENSEFSNSLDFHQQSSTLGUSSTEDDFLDQSE 1020
BCLASP2
                          -----A. ISQGPPTASHAGCALSAES 1849
hCLASE7
                          ----TVNHADS RA. LASLISNPSTNEKSBEKTDNORK FLEPLALI (671.F.FDELL) (AE. 1323
hCLASP1
                                         . . . .
                           drsilmcyly:vemi.eorlitywnkvseqelinilillerclfhfeamGeeniafyHDA 1873
hCLASP4
                           qrnlmicflwimhnabqsbirkwiadlpstqlmrilblbficvldffarge@ssekvotq 1868
hCLASP5
                           SRSLLICLLWYLENADETYLQKWFTDLSYLQLNRLLDLLYLCYSCFFAKGFKMFERMUSL 1384
hCLASP3
                           ikslimoflyilksm. doalftywnkastselmdffiise'.cheofoengheylar<mark>n jeg</mark> 1087
hCLASP2
                           srtllacvlw/lentepallgrwatdltlpglgrllelly:claaff:kgekaferinsl 1/09
hCLASP7
                           rslimofihimkti: yetliaywqrapspevsdffsild"olqnff: igkeniifkiaa | 1587
hCLASP1
                          WICKHEGIN R------ 1 1 1 .
nonagra.
                          UNI BUBUUFAR---- ------EERANDRGEGAFGEMURELAPOUTREFGILEN--- 1:1
E TAPP
                           DEKKORIMBAR-----------DEKAD GODGAF DEMORBS BOLDEROESGSAF OL DE 3
                          TERROTO MEAR------TERATO FOUGABLEM ABORROMENTE---- 1 🔧
n train
                          AS FEW, within size of the contragwiths the Fegheroff by the Likeberger of the symbol of the second second by the symbol of the second by the
                          -----FTLLESSTOTEADIFHQALLEGNTATEVLLTULDTISFFTQCFKTLLL 1059
hCLASP4
                          --IRWFKEOTHWROAN EKUTETFARLOGBALISGNLATEARLIJDINGENIIGASS-ALD 136%
FIN FWFFI MUHWBONTEKI DEOFARIEHEALIJUNLATEANLI LOTLEIJOUVS-VUR 146 (
hot APP5
n MARES
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Cadherin EJ motif

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NNDGHNPLMER MFDIHLAFLKNGQSEMBLKHMFASLRAFISEFPSAFFEGRVNMCAAFDY 1419
hCLASP4
                  CKDS---LUGGMERVEVNSENCDQSTTULTHOFATERALIARFGDLEFNERVEQOFDECH 1425
LCLASP:
                  SKES---INGOVIKVILHSMACNQSATULQHOFATQRALVBKFPELLFHEETEQCADION 1546
hCLASP1
                  ADHISHMPLMER VEDVYLCELQKHQG: TALKNIFTALFISLIME FRSTFYLGFADMCAALDY 1431
hCLASF:
                  ARES---VIGAMINAVINSIGSAQCALFLQH DIATQRAIN, EFPELLFEEDTELCADIDI 1464
hCLASP"
                  QCDCQNSLIBEGECTYMLFYQMNQCATALRHYFAS LRLFYCEFPSAFFQGFADLCGGFCY 1560
HCLASP:
                                                 * : ::: * :: **
                  EVEKOCTSHISSTENEASALLYLLMENDFEYTKEETFLRTHLQIIIAV QLIADVALSGG 1479
hCL43P-
                  QVLHHCSS MEVTRSQACATIFILME--FOF GATSNEARVEHQVTMSIASINGEAPOFNE 1483 RLLREISS GGTIESHPSASINILME--QNFELOMNEARVEHQVPMSIASINGCSQNENE 160-
hCLA3Pb
hCLASPL
                  EILSCINSKLESIETEASQULYFLMENDFDYTGEESFYRTHLQVIISV: QLIADYVGIGE 1491
hCLASPI:
                  RELEHIGSEISTIETHASABENELME-- ENFEIGENPARVENQVTMAR SINGTTONESE 1521
hCLASP1
hCLASFI
                  EVLECTHELS FOR TEAS ALLULFMENUS FORCESTIVES HIGH RAVE OLIADAG-133-161 +
                                SEFÇEMENTINNFANSDEPTRATAFMAN FONTRELET UNATAQMEEHER OPFMLIDEQ 153%
hCLA F4
                  ERLERS LRTTIAYS EROTAMONT PFF TO TELL (NLM ) IN TVEMBERGE PREMIMDIM 1845
hULASES.
                  HELBESLKTILTYAREDIELRITTE DO QUODVENLANTLE DYVENHEHQE DEMLIDIN 1664
holadro
                  TEFCOSISTINUCANSDELIKHTSF:: FOR DUTYFIA TVIMATAQMEEHENI PEMIMDIQ 1551
hCLASE2
hCLASET
                  ERLERSINTII TYAEEOMGIRDSTFARQ QODMINIBMI INTITYYIIEHQEDPEMLIDIM 1581
                  SEFOESLATINNEANGOROMENE NET AETE DISTERTET DISTAGNIKEHEELPEMLYDLQ. 16^{1.6}
holas Fil
                                                        11 7 11 1 7. 1711
                                                      tran. nenkrane
                  YSLAKSYASTEBLEKTWIDSMAKIBYHDSF #UBAANGYCHVAADVAEFIHEKK----- 1590
hCLASE4
                  TFIAKSYQASEDLELTWI.QNMAEKHTEKKOYTBAANGINHAAALVAEYISMLEDH----- 1598
hCLASE5
                  YEJAKGYOTSEE-ELTWLONMACKECHE THABAAQO LURGAALVABYISMLEDR---- 1°16
YELAKGYA TEBLEKTWLOSMAEJEVENGIL BAAMOYVEVTALVABYITEKG----- 1606
YEJARGYOGSEDLELTWLONMACKEALLOHHABAAQOMVBAAALVABYIALLEDQ---- 163°
hCLASE3
hCLASF2
hCLASET
                  yslansyauteblertvlesmakihaenouk. baanoyihiaaliabyikergyveyeki 1999
hCLASE1
                  * :*..* :*: * ***:.** * . . <u>:*** * :* **:**</u>
                  -----LFP105 CAFFELL DEFECTION DEFECANT ELACTIME---- 1621
hCLASE4
                  -----: A LEWSLYSERY CONTINUES VY ET TE PREDGY 1650
hCLASE5
                  -----PALEMAGEWIFON CONTROL TO SERVE DE MAR PERENT DE MAR PERENT 1755
hCLASE3
                          ------1634
hCLASF2
                  hCLASE7
hCLASF1
                  CTASLISEDTHPCDSNSLLTTPSGGLMFUNGUPAFI. ITHNIELEGAAFEDSGMHD---- 1795
                  ---MHYSERVLLELLEQCVDGLMKAENYBII EISPMEMEINEKREPHKLTQVYRTLHS 1679
CASQYFTF GIMGLEQAAELESTOOLYDTVNEMY MAI LLEABREEKKLTL HSKLJS 1604
hCLASP4
holiasp5
                  H 11 F2 F +
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EL MINER 1
                  -+-TPUNENTIMEQLIMOSEFONKSERYNLIADINA PITAMFERQROFFKISOD YYDIHS
                  ATTKI DEVINITAKRILGTEFR AFYGOGOFENEDGREIT KEFF LTGL: EISLALVKL/G 1739
AFDS://NKDH--KRMFGT/FR/GFFG-SKFGDLDEGEF/J/KEFAITKL:EISHALEAF/G 1750
AFOK://HOSTGWFFMFGT/FR/GFFG-TKFGDLDEGEF/J/KEFF/ITKL/EIGHLLEGF/G 1874
hCLASP4
hCLASP5
hCLASE3
HOLASPI
                  APTRIME GOOGEPERSTEEN GETS-ABFOLDSGEFVEKEINITKLABISHLEEFET 1741
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